



**Southern Delivery System** 

# Pueblo Dam Connection 1B (PDC1B), Pueblo West Connection (PWC), and PWMD River Pump Station Suction Improvements (RPSSI) Work Packages Pre-Mobilization Readiness Review AGENDA

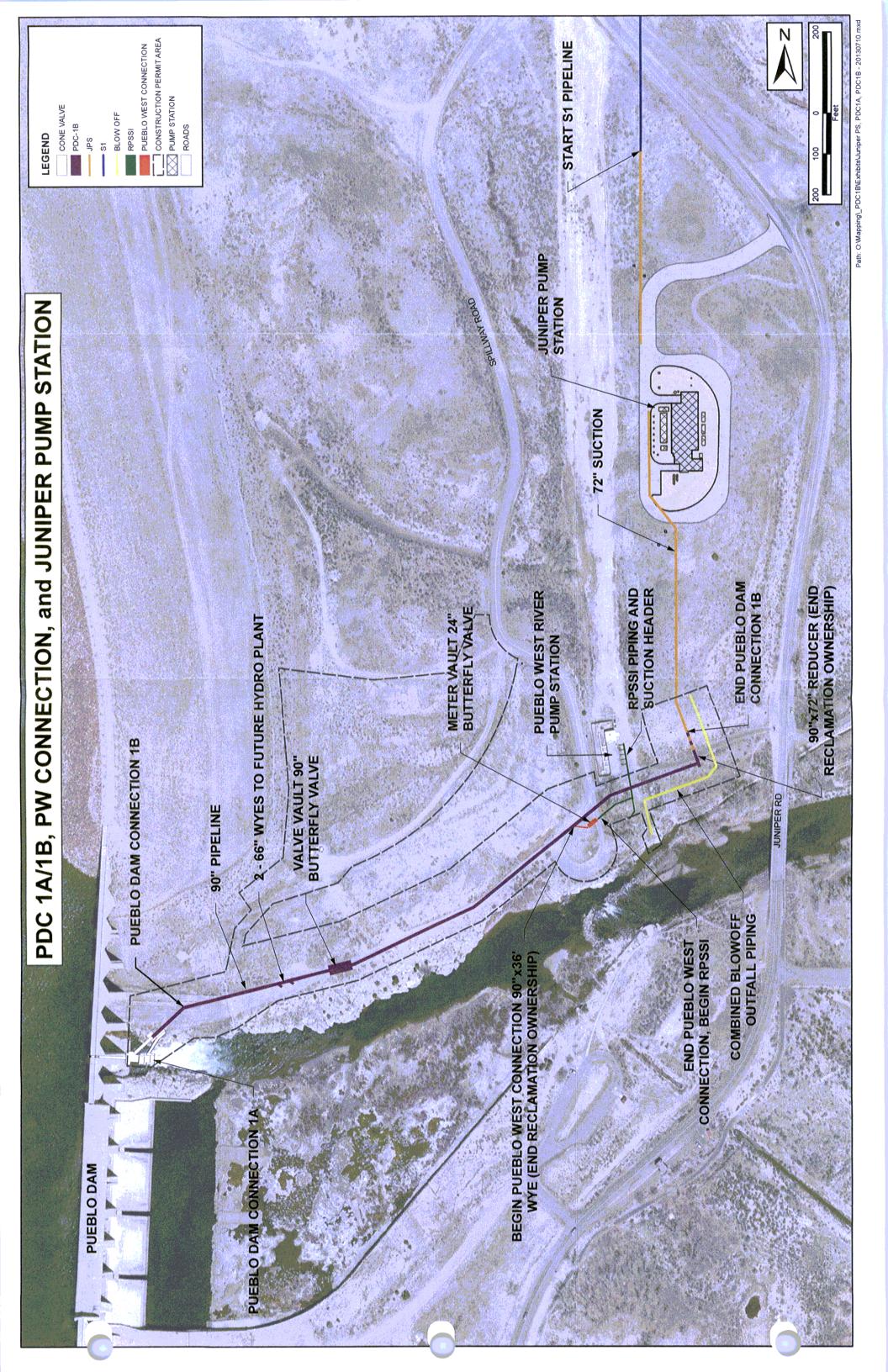
July 23, 2013

- 1. Introductions and Meeting Purpose (SDS)
  - a. The purpose of the meeting is to communicate to all parties the current state of the Work Package and identify the remaining actions needed to be completed in the pre-construction phase, prior to the commencement of construction
  - b. Construction Management Plan (CMP) provides framework for construction activities (complete copy included on CD)
  - c. Scope Of Work Tab 1
- 2. Safety (Garney)
  - a. CMP Appendix H Contractor's Site Specific Safety included on CD
    - i) Job Specific Safety Hazard Analysis
    - ii) Procedure Detail Tool Box Talk/Site Inspections/Safety Reporting
  - b. Emergency Response Plan Tab 16
  - c. Emergency Preparedness Plan Tab 17
  - d. CMP Appendix G Orientation Training included in Tab 9
- 3. Security (SDS)
  - a. CMP Section X PIV and EAL process
  - b. CMP Appendix I Special Security Instruction included in Tab 11
  - c. CMP Appendix J Contractor's Security Plan included in Tab x12
  - d. CMP Appendix K Reclamation's Authorization for Armed Services included in Tab 13
- 4. Environmental Awareness (SDS)
  - a. Permits and Approvals Tab 18
  - b. CMP Appendix M Reclamation Special Use Permit Tab 15
- 5. Schedule (Garney)
  - a. CMP Appendix F Baseline Schedule Tab 8
  - b. Construction Notice to Proceed August 1, 2013 Tab 19
  - c. Working Hours 7:00AM to 6:00PM, Monday through Friday
  - d. Substantial Completion June 16, 2014

#### **Southern Delivery System**



- 6. Staging Area/Work Area (Garney) Tab 20
  - a. Contractor's Staging Area
  - b. Temporary Facilities
  - c. Project Permit Areas
  - d. Utility Locations
  - e. Other Work in the Area
- 7. Outreach (SDS) Tab 21
  - a. Work Completed to date
  - b. Haul Route
  - c. Planned Further Outreach
  - d. Website and Contact Numbers/Emails
- 8. Communication (SDS)
  - a. CMP Appendix D Submittal/RFI Flow Tab 6
  - b. Incident Flow Diagram Tab 22
  - c. Program Flow Chart Tab 22
- 9. Quality Control Procedures (Garney)
  - a. Contractor's Quality Control Plan Tab 23
- 10. Other Issues/Discussion



# The Southern Delivery System Project

Construction Management Plan
Pueblo Dam Connection
Work Package 1B

FINAL REVISION 0: May 22, 2013

# **Revision Acceptance**

**Bureau of Reclamation** 

Colorado Springs Utilities

CMP Final Revision 0 Signed:

Michael P Collins

Area Manager Eastern Colorado Area Office

Date:

Signed:

Joseph Rasmussen Project Manager

Southern Delivery System

Date:

5/23/13

# **Revision Control**

THE FOLLOWING TABLE SUMMARIZES THE REVISIONS OF THIS DOCUMENT. IT IS THE RESPONSIBILITY OF THE READER TO MAKE SURE THEY HAVE THE MOST RECENT VERSION OF THE DOCUMENT.

Revision No.	Notes	Revision Date
Draft Rev 0	Comments received from:	February 24, 2012
	<ul> <li>Joseph Rasmussen/Colorado Springs</li> </ul>	•
	Utilities	
	<ul> <li>Howard Bailey/Reclamation</li> </ul>	
	<ul> <li>Karl Thiel/Reclamation</li> </ul>	
	<ul> <li>Sara Salber/Reclamation</li> </ul>	
	<ul> <li>Dave Hartmen/Reclamation</li> </ul>	
	<ul> <li>Tara Piper/Reclamation</li> </ul>	
	<ul> <li>Phil Tunnah/MWH</li> </ul>	
	Gayle Sturdivant/MWH	
Draft Rev 1	Comments received from:	March 20, 2013
	<ul> <li>Joseph Rasmussen/Colorado Springs</li> </ul>	
	Utilities	
	<ul> <li>Howard Bailey/Reclamation</li> </ul>	
	<ul> <li>Dave Hartmen/Reclamation</li> </ul>	
	<ul> <li>Karl Thiel/Reclamation</li> </ul>	
	<ul> <li>Sara Salber/Reclamation</li> </ul>	
	<ul> <li>Tara Piper/Reclamation</li> </ul>	
	<ul> <li>Gayle Sturdivant/MWH</li> </ul>	
	<ul> <li>Kevin Binkley/MWH</li> </ul>	
	<ul> <li>Bill Williams/Garney Construction</li> </ul>	
	<ul> <li>John Miller/Garney Construction</li> </ul>	
	Ryan Schulte/Garney Construction	· · · · · · · · · · · · · · · · · · ·
Draft Rev 2	Karl Thiel/Reclamation	April 23, 2013
	<ul> <li>Sara Salber/Reclamation</li> </ul>	1 ,
	<ul> <li>John Foreman/Reclamation</li> </ul>	
	<ul> <li>Roy Vaughan/ Reclamation</li> </ul>	
	<ul> <li>Joseph Rasmussen/Colorado Springs</li> </ul>	
	Utilities	
	Gayle Sturdivant/MWH	
Final Rev. 0	Issued May 22, 2013	

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#### **Reference Documents**

Documents for the construction of the SDS Pueblo Dam Connection Work Package 1B, Pueblo West Connection, and River Pump Station Suction Side Improvements - Volume 1 of 2, Specifications, Conformed Set, March 2013 (Under Separate Cover)

Documents for the construction of the SDS Pueblo Dam Connection Work Package 1B, Pueblo West Connection, and River Pump Station Suction Side Improvements - Volume 2 of 2 Drawings, Conformed Set, March 2013 (Under Separate Cover)

Reclamation Safety and Health Standards (RSHS) (Under Separate Cover)

Colorado Springs Utilities Work Package 1B General Contractor Agreement (Included in Documents for the construction of the SDS Pueblo Dam Connection Work Package 1B, Pueblo West Connection, and River Pump Station Suction Side Improvements - Volume 1 of 2, Specifications, Conformed Set, March 2013 (Under Separate Cover))

Colorado Springs Utilities Program Management/Construction Manager Contract (Under Separate Cover)

Colorado Springs Utilities Engineering Services During Construction Contract (Under Separate Cover)

#### **SECTION I**

# **Purpose of the Construction Management Plan**

The purpose of the Construction Management Plan (CMP) for the Southern Delivery System (SDS) Pueblo Dam Connection Work Package 1B is to establish standardized procedures and contract management of the construction.

The CMP will outline construction safety and site security measures, provide roles and responsibilities of the entities involved in the project, discuss impacts to Pueblo Reservoir and its operation during construction, discuss project contract administration, project schedule, project budget, permitting compliance, and construction inspection, and describe how the elements of the project will be constructed.

This plan meets the condition of the Record of Decision (ROD) issued by the United States Bureau of Reclamation (Reclamation) on March 20, 2009.

1-1

# **Project Charter**

Colorado Springs Utilities (UTILITIES) and Reclamation recognized a need to specifically address project management responsibilities related to the construction phase of Pueblo Dam Connection Work Package 1B as part of the SDS Project. These project management responsibilities are defined and outlined below.

### A. Background

#### Pueblo Dam

Pueblo Dam is located on the Arkansas River in Pueblo County about 6 miles upstream and west of the city of Pueblo, Colorado. Pueblo Dam and Reservoir is a major storage reservoir of the Reclamation's Fryingpan-Arkansas (Fry-Ark) project and is owned and operated by Reclamation in partnership with the Southeastern Colorado Water Conservancy District (SECWCD). It was constructed in the early 1970's and has a total storage capacity of approximately 358,000 acre-feet for multiple benefits, including agricultural irrigation, municipal and industrial supply, flood control, and recreation.

The dam has both earthfill and concrete gravity sections, with the central concrete buttress type gravity section approximately 1,750 feet long and a maximum structural height of 250 feet. This central section includes a 550-foot-wide overflow spillway designed for a maximum spill discharge of 191,500 cfs. Multiple outlet works penetrate the concrete buttress section.



# **B. Purpose of the Project**

The purpose of the SDS Project is to provide a safe, reliable, and sustainable water supply for SDS Project Participants, including the City of Colorado Springs, City of Fountain, Security Water District, and Pueblo West Metropolitan District (PWMD). The Project would provide additional yield and system redundancy for Project Participants by using existing Arkansas River Basin water rights and delivering water from Pueblo Reservoir to the Project Participant's service areas.

The Pueblo Dam Connection Work Package 1A began May 2011 and connects to Reclamation's River Outlet Works within Pueblo Dam to provide the source water connection for the SDS Project. Work Package 1A includes a connection to the existing outlet control gate of the River Outlet Works at Buttress 16 of Pueblo Dam, a new stainless steel liner within Pueblo Dam, a fixed cone valve facility at the toe of Pueblo Dam with mass concrete foundation within the Arkansas River, and 90-inch welded carbon steel and stainless steel piping extending from the fixed cone valve facility to the north bank of the Arkansas River.

The Pueblo Dam Connection Work Package 1B will provide the 90-inch welded steel piping that connects to the 90-inch branch from Work Package 1A. The full scope of work is identified in Section III of this CMP.

# C. Construction Management Team

The Construction Management Team (CMT) will include representatives from UTILITIES, Reclamation, ENGINEER, General Contractor (CONTRACTOR) and CONSTRUCTION MANAGER. See **Appendix A** for the Construction Management Team Pre-construction and Partnering Meeting Minutes. The CMT is responsible for creating the CMP and attending project related meetings.

#### D. Communication

Standardized procedures for recording, cataloging, and distributing correspondence are managed in Primavera Contract Manager (PCM). Communication procedures that are used to record and distribute correspondence, including meeting minutes, reports, and documentation of personal contacts and telephone conversations, is presented in more detail in Section V under "Project Contract Administration."

The Reclamation Inspector will communicate concerns directly with the CONSTRUCTION MANAGER or designated representative. The Reclamation Inspector will communicate and coordinate construction issues directly with the Reclamation Project Management Team.

#### Meetings

#### Pre-Mobilization Readiness Review Meeting

Prior to construction, the CONSTRUCTION MANAGER will schedule a Pre-Mobilization Readiness Review Meeting to determine the project's readiness for mobilization of field

activities. Members of the CMT are required to attend. At a minimum, the following will be discussed:

- Safety management and emergency preparedness policies and procedures
- Quality Assurance/Quality Control (QA/QC) programs and procedures
- Ensure required local, state, and federal permits and agency approvals have been acquired. Discuss permit requirements and CONTRACTOR policies and procedures to ensure compliance.
- Site and security controls
- Functionality of communication systems
- Completion of installation of temporary facilities
- CONTRACTOR's Safety Plan
- Land, easement, and right-of-way concerns and limitations related to project access
- Verification of existing utility locations
- Haul routes to the State Park and traffic control within the park
- Coordination of construction activities so State Park operations are not impacted

#### **Pre-Construction Meeting**

A Pre-Construction Meeting will be held to discuss the following:

- Construction safety
- Project schedule
- Key areas of construction for Reclamation Technical Service Center (TSC) construction subject matter experts
- Status of bonds and insurance
- Sequencing of critical path work items
- Progress payment procedures
- Project change and clarification procedures
- Use of site, access, office, and storage areas
- Security and temporary facilities
- Major product delivery

#### Partnering Meeting

A Partnering Meeting will be held to ensure the CMT is aware of the lines of communication established for the project, roles and responsibilities of all parties, and procedures for resolving conflicts during construction.

#### **Weekly Construction Meetings**

Weekly construction meetings will be held at the project site to review the progress of work, CONTRACTOR's detailed progress schedule, the three-week look-ahead schedule, submittals, changes, safety, and other issues pertaining to construction. The CONSTRUCTION MANAGER will document meeting minutes, Request for Information (RFI) and status updates, submittal status, status of field activities, and on-site personnel during the weekly construction meetings. Special meetings will be held prior to the start of major construction activities and facility start-up.

#### **Monthly Management Meeting**

Monthly management meetings will be held to keep SDS Program Management personnel aware of the day-to-day construction activities. Discussion items will include progression of work, changes, contractor schedule, conflicts, public perception, and other pertinent information.

## F. Roles and Responsibilities

Project organization, roles, and responsibilities are presented in Section IV.

#### **G. Conflict Resolution Process**

Resolution of conflicts should first be attempted at the lowest level possible in accordance with the terms and conditions of the contract(s) and other agreements established for the work package. By establishing a conflict resolution processes early, the negative impacts of conflicts can be minimized, resulting in enhanced project relationships, improved financial performance, reduced project delays, better teamwork, and improved quality management.

In the event there is a difference in opinion regarding design interpretation, potential change orders, site conditions, or other issues, efforts between parties shall be made to resolve the dispute in a timely manner. The process shall follow the Claims and Disputes Section in the UTILITIES contract agreement.

Issues between UTILITIES and Reclamation should be resolved at the lowest level. Should issues need to be escalated, it should be brought to the attention of the responsible personnel of each party identified in the Memorandum of Understanding (MOU) 10AG6C0066, Amendment No. 1, then escalated to Reclamation *Area Manager* and UTILITIES *Project Director* if necessary. See **Appendix B** for MOU 10AG6C006, Amendment No. 1.

In the event that the *Reclamation Inspector* determines that current work or immediately planned work may pose a risk to the integrity of the dam or may cause property damage or personnel injury, the *Reclamation Inspector* may affect a temporary halt to the work by advising the CONSTRUCTION MANAGER. The CONSTRUCTION MANAGER will halt the work in a safe manner until the concern is resolved. *Reclamation Inspector's* failure to advise the CONSTRUCTION MANAGER does not relieve any parties of their responsibility to meet Reclamation Safety and Health Standards.

# **Project Description**

# A. Pueblo Dam Connection Work Package 1B Project Description

#### **Pipeline**

Under Work Package 1A, after the 90-inch pipe exits the existing outlet tunnel, it bifurcates into two segments. The bifurcation is encased in a reinforced concrete thrust block. The primary pipeline segment continues following the centerline of Buttress No. 16 to the Fixed Cone Valve Facility. This pipeline segment is concrete encased welded steel pipe. The secondary pipeline segment is the 90- inch turnout to the SDS pipeline, which will be exposed welded steel pipe (approximately 100 feet) as it spans the Arkansas River and keys into the north bank of the river. This 90-inch branch is the connection point for Work Package 1B.

Work Package 1B will be a raw water pipeline from Station 10+00 (end of Work Package 1A) to Station 26+44.44. Major items of work include:

- Connection to the existing 90-inch pipeline associated with Work Package 1A Pueblo Dam Connection.
- 2. Approximately 1,560 linear feet of 90-inch diameter welded steel pipe.
- 3. 90-inch diameter tee for future Reclamation interconnection
- 4. Approximately 85 linear feet of 72-inch diameter welded steel pipe.
- 5. One combined river blowoff, which includes approximately 470 linear feet of 24-inch reinforced concrete pipe, five manholes, one flared end section, and a 30-foot long riprap-lined channel.
- 6. One buried access manway
- One Reclamation Meter Vault, which includes an isolation butterfly valve, bypass
  piping, 8-path ultrasonic flow meter, access manway, air release/vacuum valves,
  HVAC equipment, and miscellaneous appurtenances.
- 8. Pipeline cathodic protection system consisting of anodes and test stations and appurtenance grounding mats.
- 9. Approximately 1,350 linear feet of fiber optic conduit/or electrical/fiber duct bank and vaults (cable/conductors to be installed by others).
- 10. Electrical and instrumentation and controls
- 11. Trail restoration
- 12. Telephone line relocation
- Surface grading
- 14. Hydropower turnout
- 15. Hydrostatic testing of pipeline and appurtenances including valves, flanged fittings, access manways, combination air and vacuum valves, and other appurtenances.

Two other work packages will be constructed simulatiously to Work Package 1B by the CONTRACTOR. The Pueblo West Connection (PWC) will be constructed under UTILITIES contract to provide water to the PWMD. The PWMD will contract the River Pump Station Suction Improvements (RPSSI) with the selected CONTRACTOR to provide a pipeline from the PWC to the Pueblo West Pump Station.

The PWC will provide a connection between the PDC1B pipeline and the RPSSI work package. Major items of work include:

- 1. Approximately 55 linear feet of 36-inch diameter welded steel pipe.
- 2. Approximately 30 linear feet of 24-inch diameter welded steel pipe.
- 3. One Pueblo West Meter Vault, which includes an isolation butterfly valve, in-line basket strainer, electromagnetic flow meter, access manway, sump pump, air release/vacuum valves, electrical devices, instruments, and miscellaneous appurtenances. Electrical conduit, cable, panels, control conduit, control wiring, control panels, and appurtenances will be provided under the RPSSI scope of work.
- 4. Pipeline cathodic protection system consisting of anodes and test stations.
- 5. Hydrostatic testing of pipeline and appurtenances including valves, flanged fittings, access manways, combination air and vacuum valves, and other appurtenances.

The RPSSI will provide new suction side piping, valves, and appurtenance between the PWC and the RPSSI. Major items of work include:

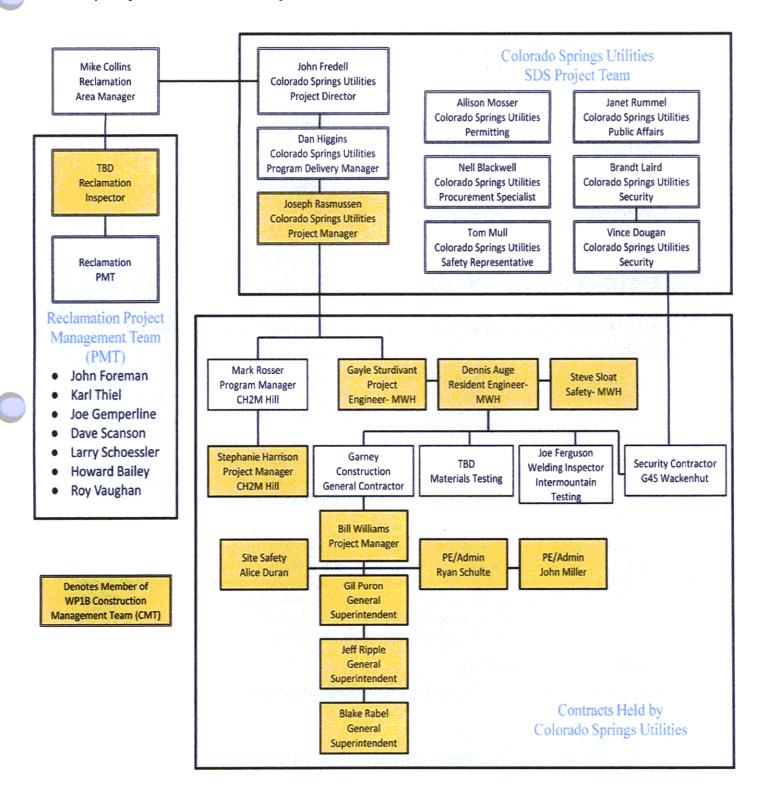
- 1. Approximately 290 linear feet of 36-inch diameter welded steel pipe.
- 2. Approximately 15 linear feet of 24-inch diameter welded steel pipe.
- 3. Approximately 30 linear feet of 24-inch ductile iron pipe.
- 4. One blowoff assembly
- 5. Two flow balancing valve vaults, which include isolation butterfly valves, bypass piping and valves, access manway, air release/vacuum valves, sump pumps and piping, and miscellaneous appurtenances.
- 6. A 36-inch suction manifold at the RPSSI with five 12-inch lateral tee connections including concrete supports, heat tracing, and aluminum jacketing.
- 7. Five 12-inch pump suction laterals from manifold into the River Pump Station. Each lateral will be equipped with air release/vacuum valve, expansion joint, and isolation ball valve.
- 8. Galvanized steel elevated walkway in pump station with handrail and ladders.
- 9. Electric conduit, cable, and appurtenances from pump station to three yard vaults (meter and two flow balancing vaults).
- 10. Instrumentation and control conduit, wires, panels, and appurtenances.
- 11. Pipeline cathodic protection system consisting of anodes and test stations.
- 12. Hydrostatic testing of pipeline and appurtenances including valves, flanged fittings, access manways, combination air and vacuum valves, and other appurtenances.

# **Project Organization**

# A. Project Organization

**Figure 1** presents an organizational chart illustrating the roles and responsibilities of the Project. Additional contacts that may be required during construction are provided in Specification Section 01 31 13 – Project Coordination.

FIGURE 1
Project Organization Chart – Work Package 1B: Pueblo Dam Connection



### **B. Project Responsibilities**

#### Reclamation

Reclamation will conduct its own independent inspections and specialty inspection services during construction. Reclamation has designated an on-site, inspector (*Reclamation Inspector*) to monitor and provide oversight of project construction activities. Reclamation, at its own discretion, may perform inspections throughout the duration of the project. The *Reclamation Inspector* will provide information to the Reclamation *Project Management Team*. Reclamation's *Deputy Operations & Maintenance (O&M) Chief* has been designated as Reclamation's contact assigned by MOU 10AG6C0066 (MOU for Construction).

Reclamation will also review specific shop drawings and/or submittals. A list of submittals to be reviewed by Reclamation is presented in **Appendix E**.

#### UTILITIES

UTILITIES' Project Manager will have overall responsibility for the project. The CONSTRUCTION MANAGER will be UTILITIES' representative on the day-to-day administration.

UTILITIES has retained a number of firms specializing in specific project requirements, including:

- Welding Inspection: Per the specifications, certified welding inspection (CWI) will be
  provided in off-site fabrication facilities. UTILITIES has contracted with a separate CWI
  firm to provide a quality check on all off-site fabrication facilities and provide inspection
  and compliance reporting of all on-site welding.
- Materials Testing and Inspection: The materials testing firm will be responsible for all
  materials testing on the project, including observations and testing on concrete,
  subgrade/backfill, structural concrete, and other testing as required by the contract
  documents.
- Security: When construction activities are necessary within the secured area (shown on Drawing 382-D-5512), a security firm will provide security and surveillance services 24 hours a day, 7 days a week. Security measures include monitoring entry and exit points at the secured fence, inspecting vehicles, keeping records of security logs, incident report forms, vehicle entry forms, special usage logs, fire and safety hazard reports, and record and report incidents of misappropriation or concealment of Reclamation property.

#### **CONSTRUCTION MANAGER**

The CONSTRUCTION MANAGER will coordinate and manage the following services during construction:

- Pre-Construction Meetings
- Receipt and process of submittals, shop drawings, and RFIs
- Site coordination and Project Team Coordination Meetings
- Expiration of insurance requirements
- Weekly Construction Progress Meetings

- Construction contract administration
- · Review of constructability issues
- Change management
- Compliance with contract documents
- · Claims and disputes coordination and support
- Quality tracking program of constructed materials
- Construction inspections
- Daily inspection notes
- Requests for design revisions
- Materials testing and specialty inspections and services
- Monitoring of site safety plans and compliance
- Security plan and evacuation contingency plan
- Security coordination for access control
- Resolution of non-conforming items
- Review of field testing, commissioning, and start-up
- Review of as-built drawings
- Preparation of punch list items
- Acceptance of work and review for Substantial and Final Completion
- Preparation of close-out documentation

#### **ENGINEER**

The ENGINEER will provide design engineering support including:

- Timely review of submittals, shop drawings, and RFIs
- Participate in Pre-Construction and Construction Progress Meetings
- Provide on-site observations of the work during construction
- Provide on-site observations of testing during construction
- Provide input for preparation of punch list items
- Provide on-site geotechnical support during pipeline excavation
- Prepare final record drawings

#### CONTRACTOR

The CONTRACTOR will be responsible for the construction of the Pueblo Dam Connection Work Package 1B and will work with the CONSTRUCTION MANAGER to ensure the contract documents are followed.

**Table 1** presents a Project Responsibility Matrix summarizing the roles and responsibilities of UTILITIES, Reclamation, CONSTRUCTION MANAGER, CONTRACTOR, and ENGINEER.

TABLE 1
Project Responsibility Matrix
Work Package 1B: Pueblo Dam Connection

Activity	UTILITIES	RECLAMATION	CONSTRUCTION	ENGINEER	CONTRACTOR
Construction Management					
Construction Contract Administration	S	٣	a.	_	ω
Inspector's Daily Report		_	ď		S
Claims	¥		R	œ	d.
Defective/Rejected Work Reports		_	Ь	_	<b>&amp;</b>
Weekly Progress Meeting	а	ф	Ь	Ъ	Ф.
Photos	A	A	S	-	Ь
Photo Files	-	_	S		Ь
Record Drawings	A	٧	S	٧	Ь
Contract Files	S		Ь		
Construction Safety	Α	٧	S	1	Ь
Notice of Unsafe Conditions	1		Ь		
Materials Testing	ı	1	Р	S	-
Specialty Inspection	S	-	Ф	_	
Site Security	S	-	Р		S
Safety	S	_	S	S	Ь

TABLE 1
Project Responsibility Matrix
Work Package 1B: Pueblo Dam Connection

Work Package 1B: Pueblo Dam Connection	10H	i			
	UTILITIES	RECLAMATION	CONSTRUCTION	ENGINEER	CONTRACTOR
Activity					
Surveying		1			a.
Payment Request					
Submittal	٧				Ъ
Review	4		ď		-
Payment	a.		R		
Modifications					
Other Requests	4	_	Ь		Ъ
Contractor Requests (RFI)	_	_	-	R/A	Ф
Change Orders	∢	_	С.	ፚ	A
Work Change Directives	4		c.	ĸ	C.
Design Modifications	∢	æ	S	۵	-
Project Management					
Contract Administration	۵	œ	Ь	-	S
Warranty Period Inspection	_	-	Ь	-	S
Warranty Period Corrective Work	-	-	S	-	a.
Environmental Monitoring	-		<b>a</b>		S
Public Involvement Support	۵.		S		S
Final Construction Report	4	¥	Ь	œ	œ

TABLE 1
Project Responsibitity Matrix
Work Package 18: Pueblo Dam Connection

WOLN FACHAGE ID. FUEDIO DAIII COILLECTOI	IIOn				
	UTILITIES	RECLAMATION	CONSTRUCTION	ENGINEER	CONTRACTOR
Activity					
O&M Manual	_	٨	~	R/A	<b>C</b>
Standard Operating Procedures	œ	٨	S	۵	_
Other Closeout Documents (see contract)	۷	_	S	_	<b>a</b>
Construction Monthly Progress Reports	ď	oc.	ď		
Construction Management Plan/ Revision	S	ď	ď	_	_
Website Development & Maintenance	<b>a</b> .	_	_	_	_
Sequence of Construction					
Plan (Baseline Schedule)	A	R	A	1	d
Scheduling (updated Baseline Schedule)	٧	Я	A	_	Р

TABLE 1
Project Responsibility Matrix
Work Package 1B: Pueblo Dam Connection

3	UTILITIES	RECLAMATION	CONSTRUCTION	ENGINEER	CONTRACTOR
Activity					
Submittals					
Coordination			ď		S
Review	1	P/A	S	P/A	S
Response	_	S	S	Ь	

LEGEND

Approval Primary Support Information Review < a ∞ - α

## C. Project Directory/Contact List

Addresses and phone numbers of UTILITIES, Reclamation, CONSTRUCTION MANAGER, ENGINEER, Specialty Inspection Subconsultants, and CONTRACTOR contacts are presented in **Table 2**.

#### D. Construction Field Office

The CONSTRUCTION MANAGER and CONTRACTOR will maintain a Construction Field Office at the project site until the completion of work, referred to as the "Construction Field Office." Project staff that will utilize the Construction Field Office as a base of operations includes the CONSTRUCTION MANAGER, CONTRACTOR, ENGINEER, Reclamation, and UTILITIES.

The CONTRACTOR will furnish the Construction Field Office with office equipment, furnishings, and utilities in accordance with Specification Section 01 52 00 – Construction Facilities. The Construction Field Office, office furnishings, and equipment will remain the property of the CONTRACTOR after completion of the project.

TABLE 2
Project Directory/Contact List
Work Package 1B: Pueblo Dam Connection

Organization	Position	Contact	Mailing Address	Office Phone Numbers	Cell Numbers	E-mail Address
UTILITIES	Program Delivery Manager	Dan Higgins	121 South Tejon Street Colorado Springs, CO 80947	719 668 3581	719 963 3135	dhigains@csu.org
	Project Manager	Joseph Rasmussen	121 South Tejon Street Colorado Springs, CO 80947	719 668 4173	719 491 2084	jrasmussen@csu.or g
	Permitting	Allison Mosser	121 South Tejon Street Colorado Springs, CO 80947	719 668 8667	719 650 1652	amosser@csu.org
	Security	Vince Dougan	215 Nichols Boulevard Colorado Springs, CO 80907	719 668 5630	719 243 1296	vdougan@csu.org
	Public Affairs	Janet Rummel	121 South Tejon Street Colorado Springs, CO 80947	719 668 3838	719 659 2738	jrummel@csu.org
	Safety Representative	Tom Mull	701 N Circle Drive Colorado Springs, CO 80909	719 668 7454	719 648 3390	tmull@csu.org
Reclamation	Deputy O&M Chief	Karf Thiel	11056 W. County Road 18E Loveland, CO 80537	970 962 4331	970 222 9299	kthiel@usbr.gov
	Supervisor Civil Engineer Great Plains Region	John Foreman	910 North Van Buren Ave Loveland, CO 80537	970 962 4510	406 208 2961	iforeman@usbr.gov
	Security Specialist	Howard Bailey	11056 West County Road 18E	970 962 4355	970 556 9494	hbailey@usbr.gov
	Safety Specialist	Dave Hartman	Loveland, CO 8053/ 11056 West County Road 18E Loveland, CO 80537	970 962 4343	970 692 3866	dhartman@u <u>sbr.go</u> ⊻

TABLE 2
Project Directory/Contact List
Work Package 18: Pueblo Dam Connection

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Organization	Position	Contact	Mailing Address	Office Phone Numbers	Cell Numbers	E-mail Address
	Public Relations	Kara Lamb	11056 W. County Road 18E Loveland, CO 80537	970 962 4326		KLAMB@usbr.gov
	Inspector	TBD				
	Technical Review Coordinator	Joe Gempedine	Denver Federal Center Building 67 P.O. 25007	303 445 2483		tcalhoun@usbr.gov
	i :	:	Dieblo Dem			
	Pueblo Dam Facility Manager	Roy Vaughan	610 Reservoir Road	719 561 9855		rvaughn@usbr.gov
			Pueblo, Colorado 81005			
Construction Manager(MWH)						Complete and the second
	Deputy Program Delivery Support Manager	Bill Van Derveer	121 South Tejon Street Colorado Springs, CO 80903	719 668 3732	719 237 7653	bvanderveer@csu. org
	Project Engineer	Gayle Sturdivant	121 South Tejon Street	719 668 3749		gsturdivant@csu.or
			Colorado Springs, CO 80903			미
	Resident Engineer	Dennis Auge	121 South Tejon Street Colorado Springs, CO 80903	719 647 2207	719 492 8200	dauge@csu.org
	Safety	Steve Sloat	121 South Tejon Street Colorado Springs, CO 80903	719 668 3764	720 238 7584	ssloat@csu.org
	Permit Technician	Kevin Binkley	121 South Tejon Street Colorado Springs, CO 80903	719 668 3748	719 339 3394	kbinkley@csu.org

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TABLE 2
Project Directory/Contact List
Work Package 1B: Pueblo Dam Connection

				Office Phone		
Organization	Position	Contact	Mailing Address	Numbers	Cell Numbers	E-mail Address
ENGINEER (CH2M Hill)						
	Program Manager	Mark Rosser	90 South Cascade St., Suite 700 Colorado Springs, CO 80903	719 477 4950	303 888 7702	<u>mark.rosser@ch2m</u> .com
	Project Manager	Stephanie Hamison	90 South Cascade St., Suite 700 Colorado Springs, CO 80903	719 477 4945	719 337 4020	<u>stephanie hamison</u> <u>@ch2m.com</u>
Specialty Inspections (Intermountain Testing)	CWI	Joe Ferguson	2965 S Shashone Englewood, CO 80110	303 761 0650		joe@intermountaint esting.com

TABLE 2
Project Directory/Contact List
Work Package 18: Pueblo Dam Connection

Organization	Position	Contact	Mailing Address	Office Phone Numbers	Cell Numbers	E-mail Address
Lake Pueblo State Park						
	Lake Pueblo State Park Manager	Brad Henley	640 Pueblo Reservoir Road Pueblo, CO	719 561 9320 x12		brad.henley@state. co.us
Construction Contractor (Garney Construction)						
	Project Manager	Bill Williams	7911 Shaffer Parkway Littleton, CO 80127		719 423 0200	bwilliams@gamey. com
	Project Engineer & Administrator	Ryan Schulte	7911 Shaffer Parkway Littleton, CO 80127		719 342 1264	rschulte@gamey.c
	Project Engineer & Administrator	John Miller	7911 Shaffer Parkway Littleton, CO 80127		970 443 8969	imiller@garney.co m
Pueblo West Metropolitan District						
	Director of Utilities	Scott Eilert	20 W. Palmer Lake Drive Pueblo West, CO 81007	719 547 5044	719 248 1717	seilert@pwmd- co.us
	Project Manager	Dan Higgins	20 W. Palmer Lake Drive Pueblo West, CO 81007	719 547 5042	719 250 9169	dhiggins@pwmd- co.us
Security Contractor (G4S Wackenhut)	Sr. Operations	Jon Miller	14111 E Alameda Ave. Suite 300	303 341 4433	719 637 2910	jomiller@wackenhu
	Manager		Aurora, CO 80012			t.g4s.com
l & C Integrator & Software Contractor (AmWest)						
· ini	Technology Manager	Fred Wilson		303 289 2115 x126	303 570 5909	fred@AmWestCont rol.com

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# **Project Contract Administration**

# A. Contract Administration

Contract Administration Services for the work package will be performed by all parties utilizing PCM. The CONSTRUCTION MANAGER will enforce the contract documents, record correspondence and communications, review the CONTRACTOR's progress payments, negotiate change orders fairly, document project progress, manage the submittal review process, resolve claims expeditiously, manage project files, record weekly progress meetings, specialty meetings, monthly management meetings, and prepare construction progress reports. Below are descriptions of how contract administration will be administered and managed during the project.

The CONSTRUCTION MANAGER will be assisted by UTILITIES, ENGINEER, *Reclamation Inspector*, and other support personnel.

# **B. Correspondence/Communications**

The CONSTRUCTION MANAGER is the focal point of all construction-related project communication; either in receipt or distribution between parties. The fundamental purpose of procedures governing communications is to expedite and facilitate project work by making pertinent information available to the project team in the shortest time possible. Project correspondence/communications will be directed to the attention of the CONSTRUCTION MANAGER, who will review, process, and distribute documents to the appropriate parties. PCM completes this process efficiently using a standard workflow and database system.

### Correspondence

Correspondence includes incoming and outgoing letters, memos, transmittals, faxes, and other forms of formal written communication to and from UTILITIES, CONSTRUCTION MANAGER, CONTRACTOR, Reclamation, ENGINEER, and other parties involved in the project. The primary contract authorization resides between the CONTRACTOR's representative and UTILITIES Project Manager.

#### **Standard Project Forms**

PCM will be utilized for all standard construction forms, such as daily reports, work change directives, non-conformance notices and punch lists. At completion of the project, documentation will be stored in a SharePoint automated Electronic Document Management System (EDMS) for record retention.

#### **Document Management/Control**

Correspondences (letters, reports, submittals, shop drawings, drawings, samples, data, etc.) should be submitted by the CONTRACTOR to the UTILITIES Project Manager, with copies distributed to the appropriate reviewers. The official project files will be maintained by the

CONSTRUCTION MANAGER; files will be transmitted through PCM and all archival activities will be in SharePoint. The ENGINEER and Reclamation will keep files of correspondence and contract documents for reference and in fulfilling contract obligations.

Drawings, specifications, photographs, or other documents not available to the general public shall be designated FOR OFFICIAL USE ONLY and must be protected. United States Government data may be exempt from further public release under the Freedom of Information Act (5 U.S.C. 552). Information must be controlled in accordance with applicable Reclamation directives. The further distribution of information requires prior approval from an authorized Reclamation official.

Individuals receiving copies of drawings, specifications, photographs, or other documents not available to the general public must sign the Federal Non-Disclosure Agreement (NDA) included in the contract documents. Only individuals who have signed the NDA will be granted access to the SharePoint site for record retention for the Pueblo Dam Connection Work Package 1B.

# C. Change Order Review, Negotiation, and Processing

#### **Change Orders**

Change orders are processed in accordance with the General Conditions Article 10.03 – Execution of Change Orders. Change order requests may arise from UTILITIES, the CONTRACTOR, ENGINEER, or CONSTRUCTION MANAGER. If a particular change item will result in a change to the original contract terms, either in costs or time, a formal change order must be implemented.

UTILITIES will make the final decision on change orders. The CONSTRUCTION MANAGER will advise UTILITIES whether the change is necessary, reasonable, and cost-effective. Changes are generally described by the following categories:

- Required design modification (necessary to complete work)
- Safety or security improvement (necessary to complete work)
- Addition or improvement (not essential for a workable system)
- Design alteration (replace existing workable design)
- Contractor request (to facilitate CONTRACTOR's operations)

Because the CONTRACTOR can dispute that changes to a project can have a significant negative impact on the CONTRACTOR's overall operation, changes will be carefully evaluated. Only those changes that clearly have benefits that outweigh negative cost and schedule impacts to UTILITIES will be pursued.

#### **Work Change Directive (WCD)**

A Work Change Directive (WCD) is a document that changes the scope of work and addresses issues of time and money. It is used to provide direction and allow a CONTRACTOR to proceed, thereby expediting the work and avoiding potential delays. A WCD will ultimately be included in a future change order. The WCD is prepared by the CONSTRUCTION MANAGER following discussion and approval from UTILITIES. WCDs will be issued via PCM.

#### Request for Information (RFI)

Clarifications and/or interpretations of the contract documents, or RFIs, will be documented and submitted to the CONSTRUCTION MANAGER. RFIs will generally be initiated by the CONTRACTOR or the CONSTRUCTION MANAGER, but ENGINEER or UTILITIES may occasionally initiate them as well. The CONSTUCTION MANAGER will manage the RFI process through PCM, and the status during construction will be reviewed at a minimum weekly by all parties at the progress meetings.

The CONSTRUCTION MANAGER will provide the final response to the CONTRACTOR for RFIs. A timely response to RFIs will help prevent delays in the field. Requests for clarification/interpretation will be numbered consecutively. The CONSTRUCTION MANAGER will track and log RFIs. Copies will be maintained in the Construction Field Office. An RFI response is not approval for additional work or changes to the periods of performance. If the CONTRACTOR believes the RFI response changes cost or schedule, a change order or WCD must be submitted and approved by UTILITIES before the "changed" work proceeds.

#### Requests for Quotation (RFQ)

Any item for a potential change order will be brought to the CONSTRUCTION MANAGER. The item can be initiated by the CONTRACTOR, UTILITIES, CONSTRUCTION MANAGER, or ENGINEER. The CONSTRUCTION MANAGER will prepare a Request for Quotation (RFQ) through PCM to submit to the CONTRACTOR for a price to complete the change.

After the CONTRACTOR returns the RFQ, it will be evaluated by the CONSTRUCTION MANAGER and ENGINEER. If accepted, it will be incorporated into a change order and routed to UTILITIES for review and approval before the CONTRACTOR receives written authorization to proceed with the change.

See **Appendix** C for examples of the standard forms generated in PCM.

See Appendix D for process flow diagrams for the change management processes.

## **D. Progress Reports**

The CONSTRUCTION MANAGER, with assistance from the CONTRACTOR, will prepare and submit a formal monthly progress report. The monthly report will focus on management of the project and will cover the following:

- Safety update
- Overview summarizing the progress, problems, and commentary
- Security updates reflecting project man-hours, a summary of security observations for the preceding month, and a description of any security incidents
- Charts, histograms, sketches, schedules, pay request data, and cash flow curves
- Data on the number of submittals received, reviewed, and the average turnaround time
- Data on the number of potential change orders and executed change orders issued, resolved/unresolved, and turnaround time
- Data on the number of RFIs and clarifications received, reviewed, and the average turnaround time

- Data on the original contract amounts, adjusted to date, and payments made to the CONTRACTOR
- Color photographs depicting status and progress of work underway
- Conclusions and recommendations for SDS action

# E. Shop Drawing Submittal, Review, and Processing

Submittals on materials, methods and installations, shop drawings, and working drawings of fabricated piping submitted by the CONTRACTOR will be reviewed for conformity with the intent of the Contract Documents. The following summarizes the submittal review process:

- The CONTRACTOR initiates the submittal process by transmitting the proper number of copies of each submittal, as specified, to the CONSTRUCTION MANAGER with a completed Transmittal of Supplier's Submittal form.
- 2. The CONSTRUCTION MANAGER checks the submittal to determine its completeness and compliance with the submittal procedures. If in conformance, the submittal will be logged and forwarded to designated reviewers. Reviews may include the CONSTRUCTION MANAGER, ENGINEER, and Reclamation.
- 3. Reviewers will review technical submittals for compliance with the requirements of the Contract Documents and will return it to the CONSTRUCTION MANAGER, noting whether the submittal is (a) Approved as Submitted, (b) Approved as Noted, (c) Returned After Loan, (d) Resubmit, (e) Submit, (f) Returned, and (g) Returned for Corrections.
- 4. Approved submittals are returned through the CONSTRUCTION MANAGER to the CONTRACTOR.
- 5. Rejected submittals are returned to the CONTRACTOR for correction and re-submittal to the CONSTRUCTION MANAGER for additional review.
- 6. The CONSTRUCTION MANAGER will maintain a submittal log that is updated weekly and reviewed with the CONTRACTOR during onsite progress meetings. The CONSTRUCTION MANAGER also keeps ENGINEER and Reclamation informed of the status of outstanding submittals.
- 7. The CONSTRUCTION MANAGER will return each submittal and/or re-submittal to the CONTRACTOR within 21 calendar days of receipt from the CONTRACTOR unless the CONTRACTOR is advised within 7 calendar days of the submittal date that additional time may be required for review.
- 8. UTILITIES will ensure that documents containing copyright information may be reproduced for legitimate O&M uses.

See Appendix D for the process flow diagrams for the submittal process.

The CONTRACTOR's submittal log and submittal numbering system is presented in **Appendix** E along with the designated Reclamation review to be conducted in parallel with the ENGINEER.

#### F. Potential Claims and Protest

The CONSTRUCTION MANAGER will review CONTRACTOR requests for additional compensation and/or additional contract time. The CONSTRUCTION MANAGER will prepare a response to the CONTRACTOR's request for additional compensation and/or additional contract time and submit to UTILITIES and ENGINEER for resolution. Each potential claim will be identified with a tracking number and discussed in the weekly construction meetings or other special meetings as appropriate.

## **G. Project Files**

The CONSTRUCTION MANAGER will establish a filing system utilizing PCM. Only a limited volume of documentation will be retained at the Construction Field Office. As identified above, an EDMS will be utilized as the controlled retention format for all work package records.

#### **H. Visitors**

Visitor logs will be maintained at the Construction Field Office. Each visitor will sign the log with name and affiliation when checking in at the Construction Field Office. If an individual wishes to tour the project site, visitors must wear the proper personal protective equipment (PPE), be familiar with the safety plan, and accompanied by an official representative of the CONSTRUCTION MANAGER. No visitor will be granted access inside Reclamation's security fence without being pre-approved on the Entry Authorization List (EAL). The EAL procedure is discussed further in Section 10 – Safety and Security Management Plan. Visitors will be required to receive appropriate safety induction training and an orientation review regarding the hazards of the construction site.

Tours of Pueblo Dam will not be allowed unless coordinated with Reclamation. The CONSTRUCTION MANAGER will maintain a log of approved individuals to provide escort to visitors, deliveries, and service providers that do not have security clearance from Reclamation. The CONSTRUCTION MANAGER will secure approval from UTILITIES before adding an individual to the log. This escort privilege log will be shared with the Security Contractor to assist with granting access to the construction site.

# **Project Schedule**

#### A. Schedule

The CONSTRUCTION MANAGER will review the CONTRACTOR's baseline (as-planned) schedule for conformance with the Contract Documents and for reasonableness of activity duration, sequence, completeness, specific requirements, milestones, and cost loading. The CONSTRUCTION MANAGER will discuss schedule issues with UTILITIES and ENGINEER.

The CONTRACTOR will prepare monthly schedule updates that will include narrative progress reports detailing work progress to date, anticipated activities for the upcoming period, and explanation of any necessary corrective action of modifications to the schedule. The CONSTRUCTION MANAGER will review work progress compared to the monthly schedule updates to determine impact of change orders and/or weather delays on the overall project schedule. The CONSTRUCTION MANAGER will negotiate time extensions due to changes, weather, and other delays and route a change order for approval by UTILITIES as necessary.

A copy of the CONTRACTOR's Baseline Project Schedule is included in Appendix F.

#### **B. Contractual Milestones**

Two contractual milestones are identified in the project specifications, under Section 01 31 13, 1.06, as critical to the overall project, which are Substantial and Final Completion. The CONTRACTOR's Baseline Project Schedule will identify these milestone activities, and these activities will also be monitored on the monthly schedule updates.

### C. Substantial Completion

As defined by General Conditions (of UTILITIES and CONTRACTOR's contract) Article 14.04, Substantial Completion is:

"When CONTRACTOR considers the Work ready for its intended use CONTRACTOR shall notify UTILITIES in writing that the entire Work is substantially complete (except for items specifically listed by CONTRACTOR as incomplete) and request that UTILITIES issue a certificate of Substantial Completion. Promptly thereafter, UTILITIES' Representative and CONTRACTOR shall make an inspection of the Work to determine the status of completion. If UTILITIES' Representative does not consider the Work substantially complete, UTILITIES will notify CONTRACTOR in writing giving the reasons therefore. If UTILITIES' Representative considers the Work substantially complete, UTILITIES' Representative will prepare a certificate of Substantial Completion, which shall fix the date of Substantial Completion. There shall be attached to the certificate a tentative list of items to be completed or corrected before final payment. At the time

of delivery of the certificate of Substantial Completion UTILITIES will deliver to CONTRACTOR a written determination as to division of responsibilities pending final payment between UTILITIES and CONTRACTOR with respect to security, operation, safety, maintenance, heat, utilities, insurance and warranties and guarantees."

The UTILITIES' representative for the Pueblo Dam Connection Project is the CONSTRUCTION MANAGER. For Work Package 1B, Substantial Completion is anticipated to be 11 months after the CONTRACTOR is given the Notice to Proceed.

### **D. Warranty Period**

Pueblo Dam Connection Constructed Facilities: The warranty period is for two years after Substantial Completion as defined in the contract with the CONTRACTOR. The CONTRACTOR warrants and guarantees that all work will be in accordance with the Contract Documents, will be performed in a good and workmanlike manner, and will not be defective. The CONTRACTOR warranty excludes defects or damages caused by abuse, modification, or improper maintenance or operation by persons other than the CONTRACTOR, their subcontractors, suppliers, or any other individual or entity for whom the CONTRACTOR is responsible; or normal wear and tear under normal usage.

## **Construction Inspections**

## A. Inspector's Daily Reports

Construction management services during construction of the project will be done primarily by the CONSTRUCTION MANAGER with support by personnel from both Reclamation and ENGINEER on an as needed basis for inspections. The CONSTRUCTION MANAGER will also rely on the Specialty Inspection Subconsultants for welding inspection and materials testing. The inspection and testing personnel will serve as the CONSTRUCTION MANAGER's representatives in evaluating the work for compliance with the Contract Documents.

The CONSTRUCTION MANAGER's representatives will prepare an Inspector's Daily Record for every workday, utilizing the standard forms with PCM. The Inspector's Daily Reports will include the following:

- Safety
- Weather conditions
- Work hours on the jobsite, by CONTRACTOR and subcontractors
- Summary of workforce by craft
- Summary of CONTRACTOR's and subcontractor's equipment
- Daily construction activities and progress
- Summary of deficiencies found
- Log of concerns raised by Reclamation
- Recording of visitors to the project site
- Documentation of unusual conditions
- Recording of QC testing inspections

The Inspector's Daily Record represents a compilation of the observations of work in progress by the CONSTRUCTION MANAGER's inspection staff. The Inspector's Daily Record track factual information about the day's activities. Copies of the record shall be provided to the *Reclamation Inspector* in an approved format.

## B. Photographs & Video

Preconstruction photos of the entire project site will be taken prior to start of construction. During the construction phase, photos will be taken on a regular basis by the CONTRACTOR and CONSTRUCTION MANAGER of the construction activities performed by the CONTRACTOR. Digital photos (with time and date stamp) will be taken for documentation purposes and to provide assistance in resolutions with design conflicts. The CONSTRUCTION MANAGER will prepare and maintain the photo logs in SharePoint.

## C. Specialty Inspections

The CONSTRUCTION MANAGER will manage the Specialty Inspection Subconsultants to ensure that specialty inspections are performed and reports are submitted per the Contract Documents. The specialty inspection to be performed on the project includes:

- Geotechnical/material testing
- Certified Welding Inspector (CWI)
- NACE (Corrosion Protection)

Reclamation, at its own discretion, may perform specialty inspections of the construction and facilities. If the *Reclamation Inspector* is not satisfied at the conclusion of the inspection, the *Reclamation Inspector* will escalate the issue to the CONSTRUCTION MANAGER Otherwise, work may continue.

The CONSTRUCTION MANAGER will notify the *Reclamation Inspector* once the trench stability survey markers are set and of the trench excavation schedule. The *Reclamation Inspector* will coordinate Reclamation's geologic inspection and survey. The CONTRACTOR'S maximum open excavation limits are 400 linear feet per day. The excavation will be open for approximately two hours per 50 linear feet of open trench to accommodate the geologic inspection and survey in accordance with Specification Section 31 23 16.13 - Excavation. Once this period has lapsed or an unforeseen safety concern arises, the CONTRACTOR may proceed with backfill operations.

The CONSTRUCTION MANAGER will provide two business days advance notification to the *Reclamation Inspector* prior to the start of the following project work:

- Commencement of excavation
- Backfill concrete placement
- Reinforcing steel installation
- Accusonic meter installation, calibration and testing
- Fountain Valley Authority line crossing
- Hydrostatic testing

Such notification will be made by phone and e-mail to Reclamation. The CONTRACTOR or manufacturer will not proceed with such work until Reclamation inspection has been completed or until Reclamation has provided notice that such inspection shall not occur.

Any Reclamation employee associated with the project may inspect the project work at any time without prior notice. It is the responsibility of the *Reclamation Inspector* to communicate with other Reclamation employees on when specialty inspections will occur. Reclamation, as normal practice, will typically provide advance notice of inspection to UTILITIES and the CONSTRUCTION MANAGER. The CONSTRUCTION MANAGER will provide sufficient work space at the Construction Field Office for Reclamation staff.

## **D. Quality Control Testing**

The CONSTRUCTION MANAGER will manage material testing to ensure it is performed and reports are submitted in accordance with the Contract Documents. The materials testing firm is responsible for monitoring CONTRACTOR compliance with materials specification in accordance with the Contract Documents.

## E. Communications

The Specialty Inspection Subconsultants will communicate deviations or failed tests to the CONSTRUCTION MANAGER. The CONSTRUCTION MANAGER will inform the CONTRACTOR of test results and inspection observations/results. Daily test reports will be given to the CONSTRUCTION MANAGER after the work is completed. The Specialty Inspection Subconsultants will submit reports to the CONSTRUCTION MANAGER.

## F. Field Equipment/Supplies

Tools and equipment necessary for construction will be provided in the Construction Field Office. The CONSTRUCTION MANAGER will maintain a current list of equipment provided on-site. Requests for additional items should be made to the CONSTRUCTION MANAGER. Field Equipment and supplies may include the following:

- Air monitor
- Dust monitor
- Noise monitor

#### **SECTION VIII**

# **Permitting Compliance**

A number of regulatory approvals are required in order to begin construction of the Pueblo Dam Connection Project. It is important for construction of the Pueblo Dam Connection Project proceed in a manner that adheres to applicable federal, state, and local regulatory and permit requirements.

There are a number of permits required in order for construction of the Pueblo Dam Connection Project to occur. These permits are listed in **Table 3**, which includes a list of the permittees. The CMT is expected to comply with all conditions of the permits. The applicable provisions from those permits obtained by the Project Participants were incorporated into the Contract Documents.

TABLE 3
Listing of Required Permits
Work Package 1B: Pueblo Dam Connection

Permit Agency	Permit	Permittee
FEDERAL PERMITS		· · · · · · · · · · · · · · · · · · ·
Bureau of Reclamation	299 Application – Facilities on Federal Lands	UTILITIES
Bureau of Reclamation	Memorandum of Understanding (MOU)	UTILITIES
Bureau of Reclamation	Special Use Permit	UTILITIES
Bureau of Reclamation	Dam Safety Decision Document	UTILITIES
Bureau of Reclamation	Special Work Permit	UTILITIES
U.S. Army Corps of Engineers	404 Permit (Projectwide)	UTILITIES
STATE PERMITS		
Colorado Parks and Wildlife	Memorandum of Understanding (MOU)	UTILITIES
Colorado Parks and Wildlife	Fish & Wildlife Mitigation Plan	UTILITIES
CDPHE	401 - Water Quality Certification	UTILITIES
CDPHE	Air Pollution Emission Notice (APEN)	UTILITIES (to be transferred to CONTRACTOR)
CDPHE	CDPS General Permit for Discharges from Construction Stormwater	CONTRACTOR
CDPHE	CDPS General Permit for Discharges from Construction Dewatering	CONTRACTOR
CDPHE	CDPS General Permit for Discharges Associated with Hydrostatic Testing of Pipelines, Tanks and Similar Vessels	CONTRACTOR  — If Necessary

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TABLE 3
Listing of Required Permits
Work Package 1B: Pueblo Dam Connection

Permit Agency	Permit	Permittee
PUEBLO COUNTY	PERMITS	
Pueblo County	1041 Permit	UTILITIES
Pueblo County	Flood Hazard Area Development Permit	UTILITIES

In order to assist UTILITIES in compliance with the terms and conditions of the Pueblo County 1041 Permit, the CONTRACTOR must provide the following:

- 1. Furnish copies of all permits acquired to the CONSTRUCTION MANAGER within five days of receipt.
- 2. Provide a list of non-compliance issues (silt releases, work hour infractions, fines and penalties) to the CONSTRUCTION MANAGER for inclusion in the quarterly report submitted to Pueblo County.

A Project Execution Plan (PEP) outlining compliance for each Pueblo County 1041 permit requirement will be prepared as a condition of the Pueblo County 1041 permit. The PEP is available under a separate cover.

#### **SECTION IX**

# **Reservoir Operations During Construction**

Continuous operation of Reclamation's facilities, other utilities, and roadways are of critical importance during construction. The CONTRACTOR is required to schedule and conduct construction activities to enable existing facilities to operate continuously. The CONTRACTOR is required to plan, design, and provide various temporary services, utilities, connections, temporary piping and heating, access, and similar items to maintain continuous operations of facilities within the work limits. Under no circumstance will the CONTRACTOR be allowed to proceed with work affecting a facility's operation without obtaining advanced approval from Reclamation and the CONSTRUCTION MANAGER. A minimum of 48 hours notification of any changes impacting Reclamation operations will be made to Reclamation's *Pueblo Dam Facility Manager*. Approval affecting operations shall come from the *Pueblo Dam Facility Manager*.

## Safety and Security Management Plan

## A. Safety Plan

As the overall SDS Program Manager, UTILITIES is responsible for ensuring that the CONSTRUCTION MANAGER, CONTRACTOR, ENGINEER, and any other contracts held by UTILITIES have their own safety plan that has been reviewed and accepted by UTILITIES. Each safety plan must comply with the requirements of the Reclamation Safety and Health Standards (RSHS). UTILITIES will meet RSHS and UTILITIES Safety Representative will periodically audit the CONTRACTOR's Safety Plan and documentation during construction. UTILITIES Safety Representative is the point of contact for oversight and enforcement of safety plans developed for the construction of the Pueblo Dam Connection Project.

Per UTILITIES contract with the CONTRACTOR, any person on the project site is authorized to direct the CONTRACTOR to stop work and correct an unsafe working condition at any time. It is requested that the person providing direction to the CONTRACTOR of the unsafe condition provide notice to the CONSTRUCTION MANAGER or UTILITIES regarding the safety issue.

The CONTRACTOR has the primary responsibility for the health, safety, and environmental management and compliance on the jobsite. The CONSTRUCTION MANAGER will monitor and report on corrective work for any conditions that do not meet applicable federal, state, and local occupational safety and health laws and regulations. The CONSTRUCTION MANAGER will notify affected personnel of any site conditions posing an imminent danger that the CONSTRUCTION MANAGER observes. The construction management staff is not responsible for health or safety precautions of construction workers or compliance with the health and safety requirements set forth; this remains the responsibility of the CONTRACTOR.

The CONTRACTOR is responsible for their own compliance with health and safety requirements in the contract for construction, or with federal, state, and local occupational safety and health laws or regulations. For the Pueblo Dam Connection Project, the CONTRACTOR must be in compliance with RSHS. The CONSTRUCTION MANAGER shall review, approve or accept, as required by RSHS coordination matrix, submittals and plans required by RSHS prior to the work under consideration being performed.

In the event of an emergency, the reporting person shall call the phone numbers as identified in Specification Section 01 31 13 1.05 – Emergency Prepardness. A summary of first responders and State Park Rangers contacts are provided below:

First Responders: 911

State Park Ranger: 719-561-9320

- Call State Park Ranger after calling first responders. State Park Ranger will dispatch Ranger to meet first responders.
- State Patrol Dispatch: 719-544-2424
  - Call State Patrol Dispatch should State Park Ranger be unavailable.

Incident reporting and investigations shall be in accordance with Colorado Springs Utilities – Contractor Minimum Safety Requirements. Any of UTILITIES Contractors must report all incidents occurring on project premises to UTILITIES Safety Representative and Project Manager in accordance with the Colorado Springs Utilities – Contractor Minimum Safety Requirements, Section 3.2. Contractor must complete an incident investigation to identify the cause(s) and any action needed to prevent recurrence within 24-hours of the incident. Joint incident investigations with Contractor safety representative and UTILITIES Safety & Health Office are required. The findings of this investigation will be available to the Contractors management by written request of UTILITIES Safety & Health Office."

## **B. CONSTRUCTION MANAGER Safety Management**

The CONTRACTOR is the principal entity responsible for the construction safety of this work package. The CONSTRUCTION MANAGER's duties are to ensure full compliance of the accepted Site Specific Safety Plan, contained in **Appendix H**, as well as compliance with RSHS, particularly the Contractor Safety Program. All new field staff to work at the Pueblo Dam site are to receive basic orientation training upon the first day of arrival to the project site by their company's supervisory staff. The topics for discussion in this orientation training are contained in **Appendix G**. A copy of all safety plans and log of orientation training will be located in the Construction Field Office and available to all staff for reference.

## C. CONTRACTOR Safety Plan

The CONTRACTOR will prepare a safety plan that contains fundamental health and safety information that must be followed by field personnel and subcontractors involved in the construction activities. The CONTRACTOR Safety Plan will be in accordance with RSHS. A copy of the safety plan will be located in the Construction Field Office. The CONTRACTOR's staff and subcontractors will review and sign the safety plan upon the first day of arrival to the project site. The CONTRACTOR Safety Plan is only applicable to CONTRACTOR staff and subcontractors. The CONTRACTOR Safety Plan is presented in **Appendix H.** 

Additionally, as stated in the CONTRACTOR's contract with UTILITIES, General Conditions Article 6.13, "CONTRACTOR shall designate a qualified and experienced safety representative at the Site whose duties and responsibilities shall be the prevention of accidents and the maintaining and supervising of safety plans and programs."

## D. Security

The Pueblo Dam and Reservoir is a major storage reservoir of the United States Bureau of Reclamation's Fryingpan-Arkansas project and is operated by Reclamation in partnership with the Southeastern Colorado Water Conservancy District (SECWCD).

Site security will be maintained by the CONSTRUCTION MANAGER, UTILITIES contracted security firm, and the CONTRACTOR throughout the duration of the construction project during working hours.

UTILITIES will contract a Security Contractor to provide 24 hour a day, 7 day a week security surveillance services for the construction period when activities proceed within Reclamation's security fence. The CONTRACTOR will provide a guard house for the Security Contractor.

The Security Contractor will be responsible for controlling entry and exit of vehicles and personnel onto the construction area within Reclamation's secured area (shown on Drawing 382-D-5512). The duties of the Security Contractor are detailed in **Appendix I**.

The SDS team (UTILITIES, CONSTRUCTION MANAGER, and CONTRACTOR) will utilize two processes to grant permission to individuals that must access the SDS construction site; (1) issuance of a Reclamation Contractor badge for unescorted access via Reclamations Personnel Identification Verification (PIV) process or, (2) utilizing Reclamations drivers license process for escorted individuals.

#### **PIV Process**

Individuals that are managers, superintendents, supervisors, or foreman will coordinate with the Office of Personnel Management (OPM) to submit personal information in accordance with Reclamations PIV process. Upon Reclamation approval, the individual will receive a Reclamation "Contractor" identification badge. This badge will permit unescorted access for the individual, as well as permit escorting of up to 20 individuals to perform construction related activities within the Reclamation security fence and the Pueblo Dam Facility.

When on site, the Security Contractor will be responsible for confirming the PIV badge to the individual seeking entry to the security area.

#### **Drivers License Process for Escorted Individuals**

Individual workers that are not authorized through the PIV process will be escorted by a PIV approved manager, superintendent, supervisor, or foreman. The process will require driver's license names and numbers to Colorado Springs Utilities Security point-of-contact at least 48 hours before access is needed to the construction site. Individuals that are authorized to access the site via the Drivers License Verification process will be placed on an Entry Authorization List (EAL). The EAL will only be updated by Colorado Springs Utilities Security point-of-contact following receipt and review of the secured information. The EAL will be e-mailed to the Security Contractor and CONSTRUCTION MANAGER at the dam site who will check the name and driver's license number to the physical photo ID and individual seeking access with the identified PIV escort. Individuals that do not have a Reclamation issued badge will be permitted to enter only if they are on the EAL, they present identification verification (drivers license), or have an escort who has been issued a Reclamation identification badge. The EAL will be controlled onsite by the Security Contractor for granting access to the construction site.

The Security Contractor will only permit access to individuals following one of these two processes. Process flow for the two processes are as follows:

#### **Escorted Access (EAL Process)**

Coordinators are established as Points of Contact (PoC) for Garney Construction, IMT, Materials Testing firm (tbd), CH2M Hill, MWH and Utilities

PoC prepares list of personnel to be escorted (EAL) with individual's name and Drivers License number

EAL lists are to be reviewed and prepared by the PoC's regularly

PoC to issue EAL to Colorado Springs
Utilities Security at least 48 hours in
advance of needing to access the
construction site (Kani Acosta at
kacosta@csu.org and Vince Dougan at
vdougan@csu.org)

Master EAL is compiled by Colorado Springs Utilities Security and sent daily to the SDS WP1B CONSTRUCTION MANAGER and security guard station

When an individual arrives at the secured fence, the SDS Security Contractor validates that the individual is listed on the EAL and confirms the individual's identity by reviewing their drivers license.

Individual is continuously escorted while on the construction site by an individual with escort privileges. (As identified on the EAL, or an individual with a Reclamation issued badge)

#### **Unescorted Access (PIV Process)**

PIV Process: Coordinators are established as Points of Contact (PoC) with Alma Bergerson with Reclamation's Office of Personnel Management (OPM)

Applicant requesting unescorted access completes "Application Form" (APPLICANT REQUEST FORM 2\_2010\_NEW.DOCX) and emails or faxes to Alma Bergerson abergerson@usbr.gov or fax # 406-247-7798

Alma will register the information into "US Access" and John Vandermolen will be notified. John Vandermolen will email a link to the eQip site to the Applicants email address that was provided in the application.

Applicant will login to E-Qip to complete the SF-85 following email instructions from John Vandermolen.

Upon completion the applicant will fax two copies of the signature page to John Vandermolen.

Applicant will receive an electronic request to schedule a meeting at a federal credentialing center.

Applicant visits Credentialing Center in Denver to complete OF 306 (Declaration of Federal Employment) and FD258 (Fingerprint cards for contractor personnel)

Upon completion of NAC, John Vandermolen will email results to Howard Bailey, Howard will email favorable decisions to Kani Kosta, and Brandt Laird to include on the EAL with escort privileges. Employee can now temporarily access site with escort privileges by providing photo identification such as a drivers license to security guard who will cross-check the daily EAL.

When OPM NACI background check is complete the applicant will be requested to return to Credentialing Center in Denver to be photographed and collect their Reclamation "Contractor" badge.

(NAC will take at most four weeks to complete after submission of SF-85 data. Reclamation OPM will not issue a badge until SF-85 data is submitted and the NACI has been completed. If unfavorable information is discovered during NACI then Reclamation OPM may revoke the unescorted privileges.

The CONTRACTOR's Security Plan is contained in **Appendix J**. The CONTRACTOR will establish the security fence and checkpoint to serve the Security Contractor, including modifications to the fence for access of construction equipment during construction and maintaining the integral security of the dam structure.

The CONTRACTOR will erect and maintain temporary security fencing around the office, staging, material storage, and equipment storage areas. The CONTRACTOR's equipment shall be stored in a secure area and locked or disabled to prevent use by unauthorized persons during non-working hours.

The CONSTRUCTION MANAGER will strictly control access keys to entry point locks and access to alarmed entry points. Recipients of keys will be required to sign when receiving and returning the key. Recipients will be required to advise CONSTRUCTION MANAGER when they have lost or misplaced a key. Only non-duplicated keys will be made. Locks and keys will be changed when a key is reported lost or misplaced. The initial issuance of keys will be issued in accordance with Reclamation's Key Control Program. Locks shall be Best Type or approved equal from Reclamation.

The CONSTRUCTION MANAGER shall obtain prior *Reclamation* approval and site inspection of any proposed entry control point configuration changes for vehicle or personnel entry.

The Reclamation Inspector will be expected to communicate any security concerns directly with UTILITIES Project Manager and CONSTRUCTION MANAGER for significant items of interest, concurrently with the Reclamation Pueblo Dam Facility Manager and Deputy O&M Chief.

## **Project Closeout**

The CONSTRUCTION MANAGER will coordinate warranty services with the CONTRACTOR, ENGINEER, UTILITIES, and Reclamation through final completion and acceptance of the project. Complete documentation and coordination is required for final acceptance and closeout.

## A. Record Drawings

The CONTRACTOR will maintain an updated set of red-line drawings on the project. The CONSTRUCTION MANAGER will ensure that the CONTRACTOR is maintaining an updated set of red-line drawings per the contract specifications, with a minimum monthly review prior to pay application.

Final red-line drawings will be issued to the ENGINEER for incorporation into the official record drawings. Once red-lines are incorporated, the CONSTRUCTION MANAGER, CONTRACTOR, and ENGINEER shall meet to review the record drawings prior to meeting with Reclamation for acceptance of the record drawings. The CONSTRUCTION MANAGER will schedule a review meeting with Reclamation to review the record drawings, which will be sent to Reclamation one week prior to the review meeting. Comments received from Reclamation will be incorporated by the ENGINEER. Once all comments have been incorporated, a second meeting will be held with Reclamation for acceptance of the official record drawings.

Record drawings or other documents not available to the general public shall be marked FOR OFFICIAL USE ONLY and must be protected. United States government data may be exempt from further public release under the Freedom of Information Act (5 U.S.C. 552). Information must be controlled in accordance with applicable Reclamation directives. The further distribution of information requires prior approval from an authorized Reclamation official. UTILITIES will purchase the copyright on behalf of Reclamation for legitimate O&M use of all copyrighted drawings that are accepted. UTILITIES will ensure that documents that contain copyright information may be reproduced for legitimate O&M uses.

Individuals receiving copies of record drawings or other documents not available to the general public must sign a FNDA form included in the contract documents. Drawings, O&M manuals, and related documents shall be transferred to Reclamation by secure means with "sent by/received by."

## **B.** Training

Prior to project completion, the CONTRACTOR will submit a Project Startup and Commissioning Plan that must specify when each piece of equipment will be ready for startup, testing, and training. Training on an individual piece of equipment or system shall not commence until the equipment or system is complete and operable, as defined in the contract documents.

Prior to conducting any training, the CONTRACTOR shall coordinate through the CONSTRUCTION MANAGER when training will be conducted. The time and content of the training will be communicated to UTITLITIES and Reclamation personnel by the CONSTRUCTION MANAGER. A qualified person authorized and approved by the equipment manufacturer and by the CONSTRUCTION MANAGER must perform the training for any piece of equipment.

The CONTRACTOR's testing and start-up representative will attend and present during start-up meetings to ensure that Reclamation personnel are well trained to operate the facilities.

## C. O&M Manuals

The contract documents include specific requirements for O&M manuals and what materials will be included. As equipment shop drawings are submitted and approved, the technical manuals should also be submitted for approval to satisfy the O&M manual requirements. The technical manual submittals will be numbered by the CONTRACTOR and logged by the CONSTRUCTION MANAGER with due dates established for responding with approval or rejection. Refer to specifications for number of submitted copies.

The CONSTRUCTION MANAGER will forward all copies of the technical manual submittals to the ENGINEER for review and approval. The ENGINEER will return three copies of the reviewed submittal to the CONSTRUCTION MANAGER within 21 business days of receipt. If the submittal is not accepted, the unsatisfactory or missing items will be noted.

The CONSTRUCTION MANAGER will record the approval or rejection of the technical manual and forward one copy to the CONTRACTOR, retaining the other copies for files.

O&M manuals shall be submitted when the equipment is delivered to the jobsite.

Near the end of the project, the CONSTRUCTION MANAGER will determine if all technical manuals have been submitted and approved as required. If all requirements are met, the CONSTRUCTION MANAGER will direct the CONTRACTOR to assemble all technical manuals into indexed volumes with proper binding and labels, per the contract requirements.

## D. Coordination of Testing and Startup

The CONSTRUCTION MANAGER will monitor facility construction to ensure that testing and start-up efforts are being conducted by the CONTRACTOR in accordance with the contract requirements. The CONSTRUCTION MANAGER will coordinate with all parties (CONTRACTOR, Manufacturers, ENGINEER, Reclamation, and UTILITIES) as required to ensure that mandatory testing and start-up procedures are consistent between all parties, and act immediately to notify the parties of and help resolve any reported or observed disparities. The CONSTRUCTION MANAGER will submit to Reclamation revised SOP sections reflecting the new configuration. The CONSTRUCTION MANAGER will obtain

from Reclamation approval of the SOP sections. The CONSTRUCTION MANAGER will, with Reclamation, test operation of equipment to ensure that it operates as described in the revised SOP sections.

## E. Project Construction Report

A project construction report will be written at the end of the construction project to provide UTILITIES and Reclamation a complete overview of the entire construction project. The report will be a compilation of all pertinent information presented in the monthly reports including project photos, material testing, and facility start-up.

## F. Acceptance and Title Transfer to Reclamation

Section V of the MOU between Reclamation and UTILITIES, presented in **Appendix B**, outlines the process that the project will utilize to transfer ownership of the constructed facilities to Reclamation. The CONSTRUCTION MANAGER will orchestrate collection of data for the Final Transfer Report. Below is the requested data from the MOU that will be included in the Transfer Report:

- A general description of the facilities being transferred, including associated equipment and buildings.
- 2. The effective date of the transfer agreed upon by the Contracting Officer and Utilities.
- The date of the transfer inspection.
- 4. Copies of the construction contract(s) and specifications.
- 5. The OM&R history of the facilties being transferred.
- A description of the general condition and sufficiency of the structures and equipment being transferred.
- 7. Copies of necessary instruction including the Designer's Operating Criteria, Design Summary, revised Standard Operating Procedures pages, revised Emergency Action Plan pages, and other appropriate operating documents.
- Copies of "As-Built" drawings for the facilities to be transferred and construction inspection reports.
- A description of deficiencies found during the transfer inspection including work items needing completion, recommendations made during the transfer inspection, and observations not considered construction deficiencies but which would be valuable information for future examiners.
- Photographs of newly constructed or modified North Outlet Works facilities as well as other items noted in the inspection report for future reference.

#### APPENDIX A

# Construction Management Team Pre-construction and Partnering Meeting Minutes















## Southern Delivery System Partnering Charter

SDS mission: While keeping our commitments to protect stakeholders, we effectively leverage our talent and experience to safely place the SDS in full and efficient operation by April 2016. We will always manage the program to deliver best value to our customers within the approved budget. We will intentionally transfer experience gained to optimize the enterprise's capital program management and conduct our core business.

Pueblo Dam Connection 1B, Pueblo West Connection and River Pump Station Suction Improvements: The entire team will deliver these work packages through open and honest communication, cooperation and trust. The project partners are committed to deliver a safe, efficient project of the utmost quality, delivered on schedule, within budget and without hidden agendas. We will be respectful of all team members and their ideas and commit to timely identification and resolution of issues.

#### Goals:

- Zero accidents for the entire team and the general public
- Everyone has a role to train and to be trained
- Develop lasting relationships
- Build a strong proactive team
- Promote good communication at all times
- No surprises share information promptly
- Lead by example
- Respect all team members

- Promote truth and honesty
- Keep any construction downtime to a minimum
- Zero issuance of nonconformance notices
- Zero negative press throughout the construction delivery
- Promote a positive public image of the program
- Look back on the construction delivery with pride

List A Coman been Rossman



# Pueblo Dam Connection 1B (PDC1B), Pueblo West Connection (PWC), and PWMD River Pump Station Suction Improvements (RPSSI) Work Packages Pre-Construction and Partnering Meeting

#### **MINUTES**

**Meeting Date:** 4/16/2013

**Location:** Pueblo West Field Office, 59 Laser Drive, Pueblo, CO 81007 **Subject:** PDC1B/PWC/RPSSI Pre-Construction and Partnering Meeting

Attendees: See attached sign-in sheet

The following agenda, attachments, and minutes represent a summary of those items discussed during this meeting. Bold text represents new or changed information. The minutes reflect the author's interpretation of what was discussed, determined, or occurred at the above referenced meeting. If any attendee feels there has been a discrepancy or error in documenting the discussions, please notify SDS Document Controls via email within 5 days of receipt of the minutes. Otherwise, the minutes will be deemed accurate and accepted as written by all parties in attendance

#### Pre-construction

- 1. Introductions and Meeting Purpose Facilitated by Phil Tunnah, SDS
  - a. The purpose of the meeting is to:
    - Establish expectations for all involved parties on the execution of the work packages;
    - ii. Coordinate pre-construction activities; and;
    - iii. Evaluate the combined team's prior execution on SDS construction projects in an attempt to identify what, particularly, went well or could be improved on future work packages
  - b. Scope Of Work Overview provided by Gayle Sturdivant, SDS; refer to attached agenda and site plan exhibit

Work is divided into three (3) separate work packages and performed under two (2) separate contracts. The Pueblo Dam Connection Work Package 1B (PDC1B) and the Pueblo West Connection (PWC) work packages are performed under Contract between Garney Construction (Garney) and UTILITIES. The River Pump Station Suction Improvements (RPSSI) work package is performed under Contract between Garney and Pueblo West Metropolitan District (PWMD).

- Schedule Reviewed by Gayle Sturdivant, SDS, and Bill Williams, Garney; draft baseline schedule attached; all three work packages currently on the same schedule
  - a. Construction Notice to Proceed August 1, 2013



- b. Sequencing of Critical Path Items Garney in the process of ordering long lead materials. I&C Component may come sooner than currently scheduled
- c. Working Hours 7:00AM to 6:00PM, Monday through Friday 48 hour notification to affected partied should after hours work becomes necessary (i.e., mussel lining installation)
- d. Substantial Completion June 16, 2014
- e. Transfer facilities to USBR

#### 3. Continuous Improvement

a. Safety:

- i) Safety in Design Stephanie Harrison, CH2M HILL incorporated latest safety standards into the new facilities.
- ii) Safety in Construction Garney being an employee owned company, asks that any questionable safety issues be brought up immediately, and can be brought to anyone at anytime. Garney asks that all persons, prior to entering the site, be safety trained and have the site specific sticker on their hard hat.

  Safety Focus of the Team The general public will be asked to stay off the north bank of the Arkansas River from Juniper Bridge to the dam. The earthen portion of the dam opens to the public on 4/16/13.

Roy Vaughan, USBR (Reclamation), stated that their dam construction project may be pushed back. Coordination and safety considerations between the projects may be necessary.

Safety will be coordinated with Juniper Pump Station Construction; Joseph Rasmussen, UTILITIES, Dennis Auge, SDS, and the field inspectors will work on both the PDC1B/PWC/RPSSI and Juniper Pump Station sites.

- Key areas of construction for USBR's Technical Service Center (TSC) construction matter experts
  - i) Commencement of excavation rock trenching v. excavation; geologic mapping Each rock trenching path will be immediately backfilled. During trench excavation, USBR will be given the opportunity to conduct geologic mapping from the safety of the trench box. Access to the trench will be available from within the trench box only. However, if USBR would like material samples from the trench they should be taken during the rock trenching activity. Garney is anticipating to install approx. 2 pipe joints per day. Garney is responsible for the trench stability survey.
  - ii) Backfill concrete placement UTILITIES to notify USBR of work
  - iii) Reinforcing steel installation UTILITIES to notify USBR of work
  - iv) Accusonic meter installation, calibration and testing UTILITIES to notify USBR of work



- v) Fountain Valley Authority line crossing Garney will not expose FVA line. They will be required to have repair items on hand. FVA will provide repair kit information to Garney. UTILITIES to notify USBR when crossing over the FVA line
- vi) Hydrostatic testing UTILITIES to notify USBR of testing on the 90" and 72" diameter lines.
- c. Security UTILITIES will provide armed security for the USBR secured area when construction is taking place in that secured area. Roy Vaughan, USBR, Brad Henley, CPW, Vince Dougan, UTILITIES, Joseph Rasmussen, UTILITIES and Gayle Sturdivant, SDS, will coordinate security efforts for the secured area. Garney is responsible for unarmed security for the remainder of the work limits. Vince Dougan, UTILITIES, will provide pricing and contact information to Bill Williams, Garney, for UTILITIES' security contractor to coordinate security requirements. If Garney does not use the same security contractor, than coordination between the two security contractors will be necessary.
- d. Use of Site, access, office, temporary facilities and storage areas Bill Williams, Garney, provided an overview of the temporary facilities and use of site
- e. Major product delivery haul routes Dennis Auge, SDS, reviewed the approved haul routes. Bill Williams, Garney, will distribute a copy of the haul route to all vendors.
- f. Issues Identified during construction The Construction Management Team asked that all problems and issues be brought to their attention as the first line of communication. They would like to be contacted in the following order: Dennis Auge, SDS, Joseph Rasmussen, UTILITIES, and Gayle Sturdivant, SDS.

David Marciniak, SDS, and Dennis Auge, SDS, will work with Brad Henley, CPW, on advance notice of Lake Pueblo State Park events to avoid conflicts. David Marciniak, SDS, will facilitate and organize "First Responders" meetings and create a contact list.

- g. Quality Expectations Gayle Sturdivant, SDS, reviewed the quality plan and procedures
  - i) Contractor's QC/QA Plan
  - ii) 3rd party inspections
  - iii) Construction observation SDS and USBR
- h. Change Management Expectations
- i. Permitting/Environmental Expectations Kevin Binkley, SDS, provided an overview of permit compliance. SWMP permit will be transferred from ASI to Garney prior to construction. Contractor will hold the Special Work Permit for construction activities in the secured area.
- j. Public Relations Coordination The Construction Management Team and David Marciniak, SDS, will provide public relations support.



- 4. Other Issues / Discussions Pueblo West Pump Station construction may overlap CSU pump station construction. Coordination will be needed between Western States, CSU, and awarded contractor for use of water at blow-offs.
  - a. Pueblo West Metropolitan District Dan Higgins, PWMD, asked that PWMD's contacts are included in UTILITIES' Construction Management Plan
  - b. State Parks UTILITIES will continue to issue CPW (State Park) passes, obtain vehicular traffic counts and provide monthly reports to CPW in accordance with the MOU between utilities and CPW (formerly DPOR)
  - c. Future Meetings
    - i) Construction Progress Meetings weekly with Construction Management Team and PWMD
    - ii) Pre-mobilization mid-July **Meeting will focus on permitting,** construction sequencing, and mobilization activities.
  - d. Construction Water Usage The FVA line is currently planned for construction water usage for S1 revegetation, PDC1B, PWC, RPSSI, and Juniper Pump Station. Eric Spain, FVA, is concerned about coordinating these water usage efforts and about exceeding the available volume. The Construction Management Team is looking for alternate water sources and coordinating the construction water needs between the different projects.
  - e. USBR's Sump Pump project may be delayed. Further construction coordination is required.



## Partnering - Phil Tunnah facilitated the partnering session

- 1. SDS Mission: While keeping our commitments to protect stakeholders, we effectively leverage our talent and experience to safely place the SDS in full and efficient operation by April 2016. We will always manage the program to deliver best value to our customers within the approved budget. We will intentionally transfer experience gained to optimize the enterprise's capital program management and conduct our core business
- 2. Critical Success Factors:
  - a. Plan and implement the program safely
  - b. Develop and implement a comprehensive plan
  - c. Clearly communicate and keep commitments to stakeholders
  - d. Develop and maintain a program controls system to effectively manage scope, schedule, budget and quality requirements
  - e. Assemble a high performing, collaborative team that is well led, dedicated, appropriately resourced and decisive
  - f. Build and commission best value assets that integrate with existing infrastructure and leverage the core operating talent
  - g. Assure that key decisions are in the best interest of the customer, defensible, and well documented
  - h. Identify, evaluate and manage risk
- 3. Work Package Mission: The entire team will deliver these work packages through open and honest communication, cooperation and trust. The project partners are committed to deliver a safe, efficient project of the utmost quality, delivered on schedule, within budget and without hidden agendas. We will be respectful of all team members and their ideas and commit to timely identification and resolution of issues.
- 4. Expectations: Participants were asked to select the top two most important topics; Phil Tunnah, SDS, recorded results and discussed expectations with participants
  - a. Zero accidents for the entire team and the general public
  - b. Everyone has a role to train and to be trained
  - c. Develop lasting relationships
  - d. Build a strong proactive team
  - e. Promote good communication at all times
  - f. No surprises share information promptly
  - g. Lead by example
  - h. Respect all team members
  - i. Promote truth and honesty
  - j. Keep any construction downtime to a minimum
  - k. Zero issuance of non-conformance notices
  - I. Zero negative press throughout the construction delivery
  - m. Promote a positive public image of the program
  - n. Look back on the construction delivery with pride

Partner Charter (attached) circulated among participants for signature. END OF MINUTES



# Pueblo Dam Connection 1B (PDC1B), Pueblo West Connection (PWC), and PWMD River Pump Station Suction Improvements (RPSSI) Work Packages Pre-Construction and Partnering Meeting

#### AGENDA April 16, 2013

### Pre-construction

- 1. Introductions and Meeting Purpose:
  - a. The purpose of the meeting is to:
    - Establish expectations for all involved parties on the execution of the work packages;
    - ii. Coordinate pre-construction activities; and;
    - iii. Evaluate the combined team's prior execution on SDS construction projects in an attempt to identify what, particularly, went well or could be improved on future work packages
  - b. Scope Of Work

Work is divided into three (3) separate work packages and performed under two (2) separate contracts. The Pueblo Dam Connection Work Package 1B (PDC1B) and the Pueblo West Connection (PWC) work packages are performed under Contract between Garney Construction (Garney) and UTILITIES. The River Pump Station Suction Improvements (RPSSI) work package is performed under Contract between Garney and Pueblo West Metropolitan District (PWMD).

The completed Work for PDC1B will provide UTILITIES with a raw water pipeline from Station 10+00 to Station 26+44.44. Major items of work for Work Package 1B include:

- i) Connection to the existing 90-inch pipeline associated with Work Package 1A
   Pueblo Dam Connections.
- ii) Approximately 1,511 linear feet of 90-inch diameter welded steel pipe.
- iii) Approximately 85 linear feet of 72-inch diameter welded steel pipe.
- iv) One combined river blowoff, which includes approximately 470 linear feet of 24-inch reinforced concrete pipe, five manholes, one flared end section, and a 30-foot long riprap-lined channel.
- v) One buried access manway.
- vi) One Reclamation Meter Vault, which includes isolation butterfly valve, bypass piping, 8-path ultrasonic flow meter, access manway, air release/vacuum valves, HVAC equipment and miscellaneous appurtenances.
- vii) Pipeline cathodic protection system consisting of anodes and test stations.
- viii) Electrical, instrumentation and controls.
- ix) Trail restoration.
- x) Telephone line relocation.
- xi) Surface grading.
- xii) Hydropower turnout.
- xiii) Hydrostatic testing of pipeline and appurtenances including valves, flanged fittings, access manways, combination air and vacuum valves, and other appurtenances.



xiv) Road pavement restoration.

The completed work for PWC will provide a connection between the PDC1B pipeline and the RPSSI work package. Major items of work for PWC include:

- i) Approximately 58 linear feet of 36-inch diameter welded steel pipe.
- ii) Approximately 30 linear feet of 24-inch diameter welded steel pipe.
- iii) One Pueblo West Meter Vault which includes isolation butterfly valve, in-line basket strainer, electromagnetic flow meter, access manway, sump pump, air release/vacuum valves, electrical devices, instruments, and miscellaneous appurtenances. Electrical conduit, cable, panels, control conduit, control wiring, control panels, and appurtenances will be provided under the RPSSI scope of work.
- iv) Pipeline cathodic protection system consisting of anodes, and test stations.
- Hydrostatic testing of pipeline and appurtenances including valves, flanged fittings, access manways, combination air and vacuum valves, and other appurtenances.

The completed work for RPSSI will provide new suction side piping, valves, and appurtenance between the PWC and the RPSSI. Major items of work for RPSSI include:

- i) Approximately 276 linear feet of 36-inch diameter welded steel pipe.
- ii) Approximately 18 linear feet of 24-inch diameter welded steel pipe.
- iii) Approximately 30 linear feet of 24-inch ductile iron pipe.
- iv) One blowoff assembly.
- v) Turbidity sampling tap.
- vi) Two flow balancing valve vaults which include isolation butterfly valves, bypass piping and valves, access manway, air release/vacuum valves, sump pumps and piping, and miscellaneous appurtenances.
- vii) 36-inch suction manifold at the RPSSI with five 12-inch lateral tee connections including concrete supports, heat tracing and aluminum jacketing.
- viii) Five 12-inch pump suction laterals from manifold into the River Pump Station. Each lateral equipped with air release/vacuum valve, expansion joint, and isolation ball valve.
- ix) Galvanized steel elevated walkway in pump station with handrail and ladders.
- x) Electric conduit, cable and appurtenances from pump station to three yard vaults (meter, and two flow balancing vaults).
- xi) Instrumentation and control conduit, wires, panels, and appurtenances.
- xii) Pipeline cathodic protection system consisting of anodes, and test stations.
- xiii) Hydrostatic testing of pipeline and appurtenances including valves, flanged fittings, access manways, combination air and vacuum valves, and other appurtenances.



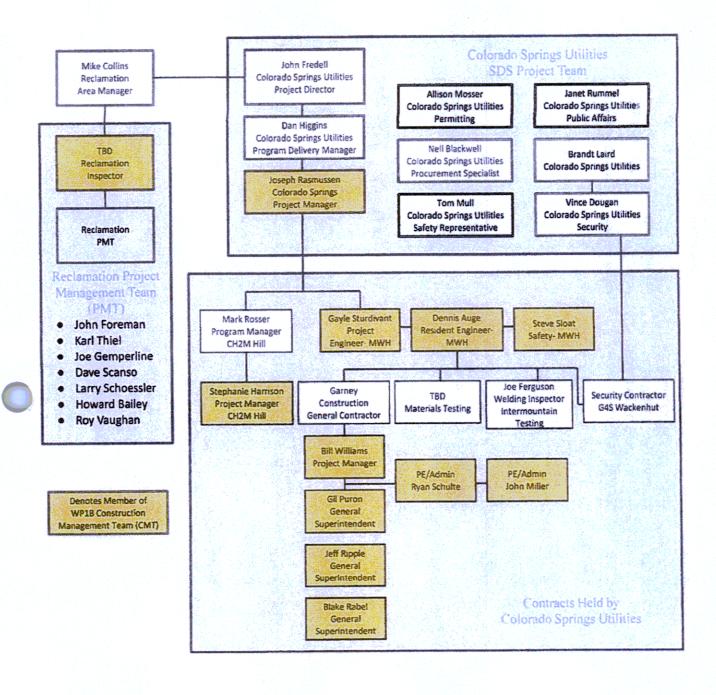
- 2. Schedule
  - a. Construction Notice to Proceed August 1, 2013
  - b. Sequencing of Critical Path Items
  - c. Working Hours 7:00AM to 6:00PM, Monday through Friday
  - d. Substantial Completion June 16, 2014
  - e. Transfer facilities to USBR
- 3. Continuous Improvement
  - a. Safety:
    - i) Safety in Design
    - ii) Safety in Construction
    - iii) Safety Focus of the Team
  - b. Key areas of construction for Reclamation Technical Service Center (TSC) construction matter experts
    - i) Commencement of excavation rock trenching v. excavation; geologic mapping
    - ii) Backfill concrete placement
    - iii) Reinforcing steel installation
    - iv) Accusonic meter installation, calibration and testing
    - v) Fountain Valley Authority line crossing
    - vi) Hydrostatic testing
  - c. Security
  - d. Use of Site, access, office, temporary facilities and storage areas
  - e. Major product delivery haul routes
  - f. Issues Identified during construction
  - g. Quality Expectations
    - i) Contractor's QC/QA Plan
    - ii) 3rd party inspections
    - iii) Construction observation SDS and USBR
  - h. Change Management Expectations
  - i. Permitting/Environmental Expectations
  - i. Public Relations Coordination
- 4. Other Issues / Discussions
  - a. Pueblo West Metropolitan District
  - b. State Parks
  - c. Future Meetings
    - i) Construction Progress Meetings weekly
    - ii) Pre-mobilization mid-July



### **Partnering**

- 1. SDS Mission: While keeping our commitments to protect stakeholders, we effectively leverage our talent and experience to safely place the SDS in full and efficient operation by April 2016. We will always manage the program to deliver best value to our customers within the approved budget. We will intentionally transfer experience gained to optimize the enterprise's capital program management and conduct our core business
- 2. Critical Success Factors:
  - a. Plan and implement the program safely
  - b. Develop and implement a comprehensive plan
  - c. Clearly communicate and keep commitments to stakeholders
  - d. Develop and maintain a program controls system to effectively manage scope, schedule, budget and quality requirements
  - e. Assemble a high performing, collaborative team that is well led, dedicated, appropriately resourced and decisive
  - f. Build and commission best value assets that integrate with existing infrastructure and leverage the core operating talent
  - g. Assure that key decisions are in the best interest of the customer, defensible, and well documented
  - h. Identify, evaluate and manage risk
- 3. Work Package Mission: The entire team will deliver these work packages through open and honest communication, cooperation and trust. The project partners are committed to deliver a safe, efficient project of the utmost quality, delivered on schedule, within budget and without hidden agendas. We will be respectful of all team members and their ideas and commit to timely identification and resolution of issues.
- 4. Expectations:
  - a. Zero accidents for the entire team and the general public
  - b. Everyone has a role to train and to be trained
  - c. Develop lasting relationships
  - d. Build a strong proactive team
  - e. Promote good communication at all times
  - f. No surprises share information promptly
  - g. Lead by example
  - h. Respect all team members
  - i. Promote truth and honesty
  - j. Keep any construction downtime to a minimum
  - k. Zero issuance of non-conformance notices
  - Zero negative press throughout the construction delivery
  - m. Promote a positive public image of the program
  - n. Look back on the construction delivery with pride

#### PROJECT ORGANIZATION CHART - WORK PACKAGE 1B: PUEBLO DAM CONNECTIONS



Directory/Contact List Work Package 18: Pueblo Dam Connection, Pueblo West Connection, PWMD River Pump Station Suction Improvements

Organization	Position	Contact	Mailing Address	Office Phone Numbers	Cell Numbers	E-mail Address
UTILITIES	AND THE RESIDENCE OF THE PROPERTY OF THE PROPE		market and the state of the sta	isk forformer server merelikanser med fil blevenmer till for vilke kelikelige – men men server med		
	Program Delivery Manager	Dan Higgins	121 South Tejon Street Colorado Springs, CO 80947	719 668 3581	719 963 3135	dhigains@csu.org
	Project Manager	Joseph Rasmussen	121 South Tejon Street Colorado Springs, CO 80947	719 668 4173	719 491 2084	irasmussen@csu.or g
	Permitting	Allison Mosser	121 South Tejon Street Colorado Springs, CO 80947	719 668 8667	719 650 1652	amosser@csu.org
	Security	Vince Dougan	215 Nichols Boulevard Colorado Springs, CO 80907	719 668 5630	719 243 1296	vdougan@csu.org
	Public Affairs	Janet Rummel	121 South Tejon Street Colorado Springs, CO 80947	719 668 3838	719 659 2738	irummel@csu.org
	Safety Representative	Tom Mull	701 N Circle Drive Colorado Springs, CO 80909	719 668 7454	719 648 3390	tmull@csu.org
Reclamation	Deputy O&M Chief	Karl Thiel	11056 W. County Road 18E	970 962 4338		kthiel@usbr.gov
	Supervisor Civil Engineer Great Plains Region	John Foreman	Loveland, CO 8053/ 910 North Van Buren Ave Loveland, CO 80537	970 962 4510		jforeman@usbr.gov
	Security Specialist	Howard Bailey	11056 West County Road 18E	970 962 4355	970 556 9494	hbailey@usbr.gov
	Safety Specialist	Dave Hartman	Loveland, CO 80537 11056 West County Road 18E Loveland, CO 80537	970 962 4343	970 692 3866	dhartman@usbr.go v
	Public Relations Reclamation Inspector	Kara Lamb TBD		970 962 4326		KLAMB@usbr.gov

Directory/Contact List
Work Package 1B: Pueblo Dam Connection, Pueblo West Connection, PWMD River Pump Station Suction Improvements

	Continue of the continue of th	pataco	Malling Address	Office Phone Numbers	Cell Numbers	E-mail Address
Organization		1000				
	Technical Review	Joe Gemperline	Denver Federal Center	303 445 2483		tcalhoun@usbr.gov
	Coordinator		Building 67			
			P.O. 25007			
			Denver, CO 80225			
	Pueblo Dam Facility	Roy Vaughan	Pueblo Dam	719 561 9855		rvaughn@usbr.gov
	Manager	,	610 Reservoir Road			
			Pueblo, Colorado 81005			
Construction Manager(MWH)		Andrews and the state of the st				
	Deputy Program Delivery Support	Bill Van Derveer	121 South Tejon Street Colorado Springs, CO 80903	719 668 3732	719 237 7653	bvanderveer@csu. org
	Manager					
	Project Engineer	Gayle Sturdivant	121 South Tejon Street	719 668 3749		gsturdivant@csu.or
			Colorado Springs, CO 80903			<b>D</b>
	Resident Engineer	Dennis Auge	121 South Tejon Street	719 647 2207	719 492 8200	dauge@csn.org
			Cotorado Springs, CO 80903			
	Safety	Steve Sloat	121 South Tejon Street	719 668 3764	720 238 7584	ssloat@csu.org
	•		Colorado Springs, CO 80903			
	Permit Technician	Kevin Binkley	121 South Tejon Street	719 668 3748	719 339 3394	kbinkley@csu.org
			Colorado Springs, CO 80903			

Directory/Contact List Work Package 1B: Pueblo Dam Connection, Pueblo West Connection, PWMD River Pump Station Suction Improvements

Organization	Position	Contact	Mailing Address	Office Phone Numbers	Cell Numbers	E-mail Address
ENGINEER (CH2M Hill)	Program Manager	Mark Rosser	90 South Cascade St., Suite 700 Colorado Springs, CO 80903	719 477 4950	303 888 7702	mark.rosser@ch2m .com
	Project Manager	Stephanie Harrison	90 South Cascade St., Suite 700 Colorado Springs, CO 80903	719 477 4945	719 337 4020	stephanie, harrison @ch2m.com
Specialty Inspections (intermountain Testing)	CWI	Joe Ferguson	2965 S Shoshone Englewood, CO 80110	303 761 0650		joe@intermountaint esting.com

Organization	Organization Position Contact Mailing Address	Contact	Mailing Address	Office Phone Numbers	Cell Numbers	E-mail Address
Lake Pueblo State Park	A special property of the contract of the cont					
	Lake Pueblo State Park Manager	Brad Henley	640 Pueblo Reservoir Road Pueblo, CO	719 561 9320 x12		brad.henley@state. co.us
Construction Contractor (Garney Construction)						
	Project Manager	Bill Williams	7911 Shaffer Parkway Littleton, CO 80127		719 423 0200	bwilliams@garnev. com
	Project Engineer & Administrator	Ryan Schulte	7911 Shaffer Parkway Littleton, CO 80127		719 342 1264	rschulte@garney.c
	Project Engineer & Administrator	John Miller	7911 Shaffer Parkway Littleton, CO 80127		970 443 8969	jmiller@garney.co m
Pueblo West Metropolitan District						
-	Director of Utilities	Scott Eilert	20 W. Palmer Lake Drive Pueblo West, CO 81007	719 547 5044	719 248 1717	seilert@pwmd- co.us
	Project Manager	Dan Higgins	20 W. Palmer Lake Drive Pueblo West, CO 81007	719 547 5042	719 250 9169	dhiggins@pwmd- co.us
Security Contractor (G4S Wackenhut)	Sr. Operations Manager	Jon Miller	14111 E Alameda Ave. Suite 300 Aurora, CO 80012	303 341 4433	719 637 2910	iomiller@wackenhu t.g4s.com
I& C Integrator & Software Contractor (AmWest)						
	Technology Manager	Fred Wilson		303 289 2115	303 570 5909	fred@AmWestCont



# Pueblo Dam Connection 1B (PDC1B), Pueblo West Connection (PWC), and PWMD River Pump Station Suction Improvements (RPSSI) Work Packages Pre-Construction and Partnering Meeting

### AGENDA April 16, 2013

### Pre-construction

- 1. Introductions and Meeting Purpose:
  - a. The purpose of the meeting is to:
    - i. Establish expectations for all involved parties on the execution of the work packages;
    - ii. Coordinate pre-construction activities; and;
    - iii. Evaluate the combined team's prior execution on SDS construction projects in an attempt to identify what, particularly, went well or could be improved on future work packages
  - b. Scope Of Work

Work is divided into three (3) separate work packages and performed under two (2) separate contracts. The Pueblo Dam Connection Work Package 1B (PDC1B) and the Pueblo West Connection (PWC) work packages are performed under Contract between Garney Construction (Garney) and UTILITIES. The River Pump Station Suction Improvements (RPSSI) work package is performed under Contract between Garney and Pueblo West Metropolitan District (PWMD).

The completed Work for PDC1B will provide UTILITIES with a raw water pipeline from Station 10+00 to Station 26+44.44. Major items of work for Work Package 1B include:

- i) Connection to the existing 90-inch pipeline associated with Work Package 1A Pueblo Dam Connections.
- ii) Approximately 1,511 linear feet of 90-inch diameter welded steel pipe.
- iii) Approximately 85 linear feet of 72-inch diameter welded steel pipe.
- iv) One combined river blowoff, which includes approximately 470 linear feet of 24-inch reinforced concrete pipe, five manholes, one flared end section, and a 30-foot long riprap-lined channel.
- v) One buried access manway.
- vi) One Reclamation Meter Vault, which includes isolation butterfly valve, bypass piping, 8-path ultrasonic flow meter, access manway, air release/vacuum valves, HVAC equipment and miscellaneous appurtenances.
- vii) Pipeline cathodic protection system consisting of anodes and test stations.
- viii) Electrical, instrumentation and controls.
- ix) Trail restoration.
- x) Telephone line relocation.
- xi) Surface grading.
- xii) Hydropower turnout.
- xiii) Hydrostatic testing of pipeline and appurtenances including valves, flanged fittings, access manways, combination air and vacuum valves, and other appurtenances.



xiv) Road pavement restoration.

The completed work for PWC will provide a connection between the PDC1B pipeline and the RPSSI work package. Major items of work for PWC include:

- i) Approximately 58 linear feet of 36-inch diameter welded steel pipe.
- ii) Approximately 30 linear feet of 24-inch diameter welded steel pipe.
- iii) One Pueblo West Meter Vault which includes isolation butterfly valve, in-line basket strainer, electromagnetic flow meter, access manway, sump pump, air release/vacuum valves, electrical devices, instruments, and miscellaneous appurtenances. Electrical conduit, cable, panels, control conduit, control wiring, control panels, and appurtenances will be provided under the RPSSI scope of work.
- iv) Pipeline cathodic protection system consisting of anodes, and test stations.
- v) Hydrostatic testing of pipeline and appurtenances including valves, flanged fittings, access manways, combination air and vacuum valves, and other appurtenances.

The completed work for RPSSI will provide new suction side piping, valves, and appurtenance between the PWC and the RPSSI. Major items of work for RPSSI include:

- i) Approximately 276 linear feet of 36-inch diameter welded steel pipe.
- ii) Approximately 18 linear feet of 24-inch diameter welded steel pipe.
- iii) Approximately 30 linear feet of 24-inch ductile iron pipe.
- iv) One blowoff assembly.
- v) Turbidity sampling tap.
- vi) Two flow balancing valve vaults which include isolation butterfly valves, bypass piping and valves, access manway, air release/vacuum valves, sump pumps and piping, and miscellaneous appurtenances.
- vii) 36-inch suction manifold at the RPSSI with five 12-inch lateral tee connections including concrete supports, heat tracing and aluminum jacketing.
- viii) Five 12-inch pump suction laterals from manifold into the River Pump Station. Each lateral equipped with air release/vacuum valve, expansion joint, and isolation ball valve.
- ix) Galvanized steel elevated walkway in pump station with handrail and ladders.
- x) Electric conduit, cable and appurtenances from pump station to three yard vaults (meter, and two flow balancing vaults).
- xi) Instrumentation and control conduit, wires, panels, and appurtenances.
- xii) Pipeline cathodic protection system consisting of anodes, and test stations.
- xiii) Hydrostatic testing of pipeline and appurtenances including valves, flanged fittings, access manways, combination air and vacuum valves, and other appurtenances.

#### **Southern Delivery System**



- 2. Schedule
  - a. Construction Notice to Proceed August 1, 2013
  - b. Sequencing of Critical Path Items
  - c. Working Hours 7:00AM to 6:00PM, Monday through Friday
  - d. Substantial Completion June 16, 2014
  - e. Transfer facilities to USBR
- 3. Continuous Improvement
  - a. Safety:
    - i) Safety in Design
    - ii) Safety in Construction
    - iii) Safety Focus of the Team
  - b. Key areas of construction for Reclamation Technical Service Center (TSC) construction matter experts
    - i) Commencement of excavation rock trenching v. excavation; geologic mapping
    - ii) Backfill concrete placement
    - iii) Reinforcing steel installation
    - iv) Accusonic meter installation, calibration and testing
    - v) Fountain Valley Authority line crossing
    - vi) Hydrostatic testing
  - c. Security
  - d. Use of Site, access, office, temporary facilities and storage areas
  - e. Major product delivery haul routes
  - f. Issues Identified during construction
  - g. Quality Expectations
    - i) Contractor's QC/QA Plan
    - ii) 3rd party inspections
    - iii) Construction observation SDS and USBR
  - h. Change Management Expectations
  - i. Permitting/Environmental Expectations
  - i. Public Relations Coordination
- 4. Other Issues / Discussions
  - a. Pueblo West Metropolitan District
  - b. State Parks
  - c. Future Meetings
    - i) Construction Progress Meetings weekly
    - ii) Pre-mobilization mid-July

#### **Southern Delivery System**



#### **Partnering**

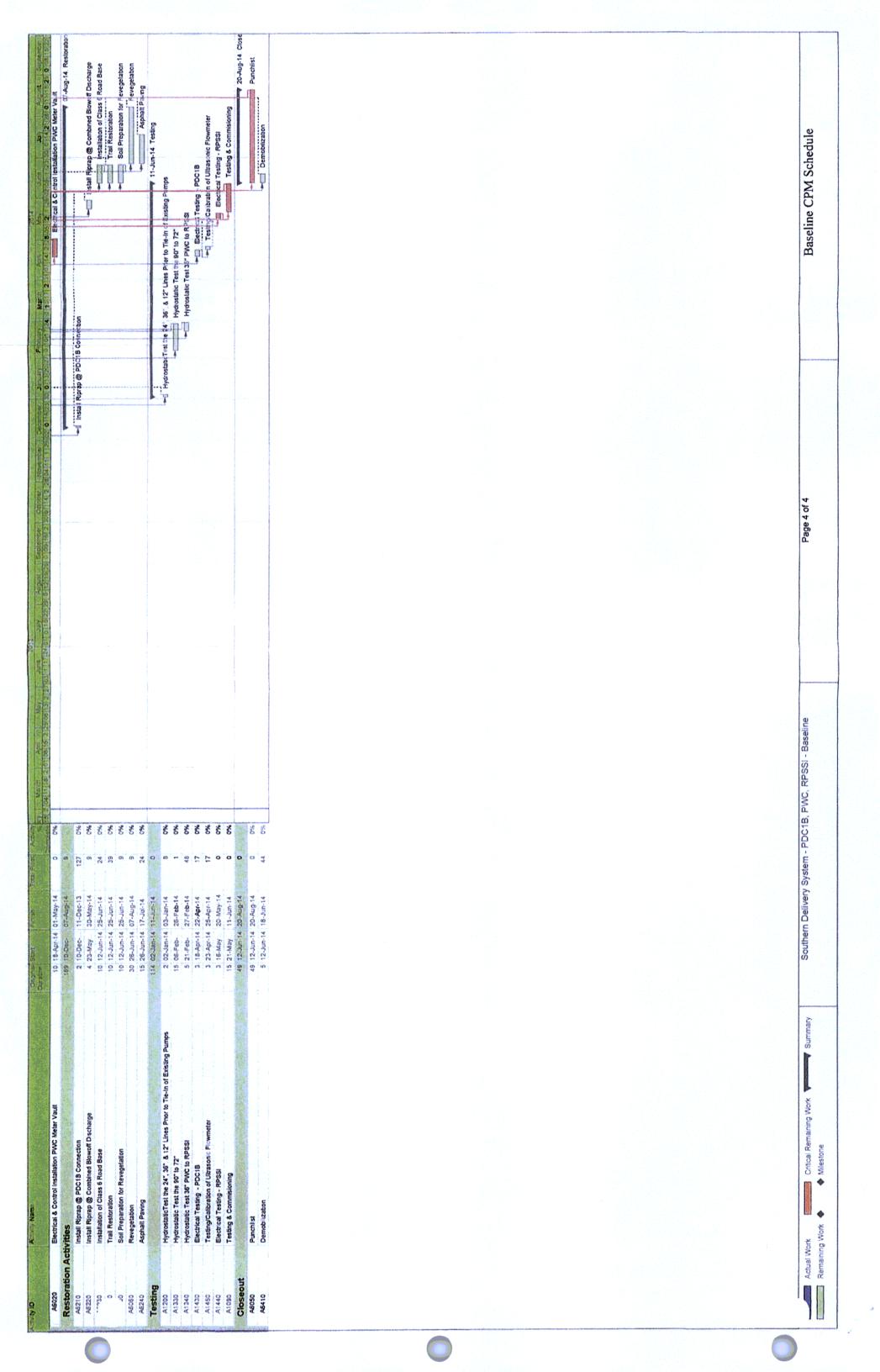
- 1. SDS Mission: While keeping our commitments to protect stakeholders, we effectively leverage our talent and experience to safely place the SDS in full and efficient operation by April 2016. We will always manage the program to deliver best value to our customers within the approved budget. We will intentionally transfer experience gained to optimize the enterprise's capital program management and conduct our core business
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APPENDIX B



#### United States Department of the Interior

BUREAU OF RECLAMATION Great Plains Region Eastern Colorado Area Office 11056 West County Road 18E Loveland, Colorado 80537-9711

EC-1000 ADM-13.00 APR - 9 2012

John A. Fredell Project Director 121 S. Tejon, MC 0930 Colorado Springs, CO 80903-0930

Subject: Transmittal of Fully Executed Amendment No. 1 to Memorandum of Understanding

(MOU) No. 10AG6C0066 for Construction of the Southern Delivery System - Fryingpan

Arkansas Project, Colorado.

Dear Mr. Fredell:

Enclosed is the fully executed original of Amendment No. 1 to MOU No. 10AG6C0066 for your records.

If you have any questions, please contact Sara Salber at 970-962-4205.

Sincerely,

Michael P. Collins

Area Manager

Enclosure -1

# CONTRIBUTED FUNDS ACT AGREEMENT No. R10CF60066 AMONG COLORADO SPRINGS UTILITIES AND

### THE BUREAU OF RECLAMATION, DEPARTMENT OF THE INTERIOR for the CONSTRUCTION OF THE SOUTHERN DELIVERY SYSTEM

- I. This Contributed Funds Act Agreement (CFA) for Construction of the Southern Delivery System is entered into by Colorado Springs Utilities (hereinafter referred to as "Utilities"), and the United States Department of the Interior, Bureau of Reclamation (hereinafter referred to as "Reclamation").
- II. Authority: Reclamation's authority for the acceptance of non-federal funds identified in this agreement through the statutory authority of The Sundry Civil Expenses Appropriations Act for 1922 (43 U.S.C. § 395) which states, "All moneys received after March 4, 1921, from any State, municipality, corporation, association, firm, district, or individual for investigations, surveys, construction work, or any other development work incident thereto involving operations similar to those provided for by the reclamation law shall be covered into the reclamation fund and shall be available for expenditure for the purposes for which contributed in like manner as if said sums had been specifically appropriated for said purposes."
- III. Purpose of Contributed Funds: The non-federal partner listed in Section I is contributing funds to Reclamation for the following purposes:

  In order to accomplish activities agreed to in MOU #10AG6C0066, attached hereto as Exhibit A and by this reference made a part hereof, the Utilities shall contribute funds to Reclamation. These funds will be transferred to Reclamation and deposited within the account number provided.
- IV. Advancement of Funds: In accordance with Anti-Deficiency Act (31 U.S.C. § 1341 et seq.), funds must be provided to Reclamation in advance of activities performed by Reclamation personnel. The Utilities shall advance to Reclamation the funds necessary to accommodate Reclamation's expenditures for the work defined in the attached MOU No. 10AG6C0066. Payment by the Utilities can be made in one lump sum, in partial payments prior to work being performed, or other methods as best conforms to the Utilities' budgetary processes and fiscal year, as long as funds are received in advance of activities performed by Reclamation personnel. Estimated costs for work completed by Reclamation will be provided upon receipt of work requests from Utilities, estimated costs may be modified by the Utilities and Reclamation subject to conditions defined in Section V.
- V. Unused Funds: In the event that any funds advanced to Reclamation by the Utilities are not required to complete the required work, such unused funds shall be returned by Reclamation to the Utilities without interest, upon completion of the work defined

by the MOU; provided, however, that in the event the authorized representatives agree on additional work consistent with the direction of this MOU, such unused funds may be retained by Reclamation with approval from the Utilities.

#### VI. Signature Parties:

IN WITNESS WHEREOF, the Parties have executed this Contributed Funds Act Agreement and agree to the terms and conditions provided in the attached MOU on the date and the year written below.

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF RECLAMATION
GREAT PLAINS REGION
By: ACTING FOR Michael P Collins
Michael P Collins
Area Manager
Eastern Colorado Area Office
Date: April 9, 2012
COLORADO SPRINGS UTILITIES
By:
Date: $3/23/20/2$

#### Exhibit A

#### U.S. DEPARTMENT OF THE INTERIOR BUREAU OF RECLAMATION GREAT PLAINS REGION EASTERN COLORADO AREA OFFICE

# MEMORANDUM OF UNDERSTANDING AMENDMENT No. 1 MOU No. 10AG6C0066 FOR CONSTRUCTION OF THE SOUTHERN DELIVERY SYSTEM

This Memorandum of Understanding (MOU) between the United States, acting through the Department of the Interior, Bureau of Reclamation (Reclamation), and Colorado Springs Utilities (Utilities) identifies the funding roles, responsibilities, and steps necessary to modify existing Reclamation facilities at Pueblo Dam and to construct additional facilities for the Southern Delivery System (SDS) Project as well as to perform other ongoing activities throughout the construction of the SDS. The parties agree to the terms and conditions expressed and referenced herein. This amendment No 1 supersedes and replaces the provisions of the MOU No. 10AG6C0066 between Reclamation and the Colorado Springs Utilities, dated May 5, 2011. Except as herein provided, the existing provisions of the MOU shall remain in full force and effect.

ACTING FORigned:

Bureau of Reclamation

Colorado Springs Utilities

Signed:

Name: Michael P. Collins

Title: Area Manager

Eastern Colorado Area Office

Name: John A. Fredell Title: Project Director

Southern Delivery System

Date: April 9, 2012

Date

#### I. Definitions

- The "North Outlet Works" shall mean those facilities constructed by Utilities including modifications to the existing Pueblo Dam River Outlet Works which reside in and to the East of Pueblo Dam buttress 16. Utilities is designing and constructing the North Outlet Works in two phases, Work Package 1A (WP1A) and Work Package 1B (WP1B). WP1A includes the connection to the existing River Outlet Works gate valve in Buttress 16, transitioning from a square to round pipe to exit Buttress 16, installation of a 60 inch rotary cone valve and 60 inch ring jet valve, and a 90 inch bifurcation of the pipe to the North Bank of the Arkansas River. Also included in WP1A is the installation of a new 480 volt electrical meter supply along with instrumentation and controls devices. The WP1A facilities will be title transferred to Reclamation after completion of the WP1A construction phase. WP1B will connect to WP1A and include the following components that will be title transferred to Reclamation after completion of the WP1B construction phase; approximately 1,500 feet of 90 inch pipe, a meter vault which will house a 90 inch 8-path flow-meter and isolation valve, a turnout for a future hydro-power facility, a 90 inch by 36 inch reducing turnout for Pueblo West Metropolitan District, a 90 inch by 72 inch reducing turnout for SDS Juniper Pump Station, and a 90 inch tee for a future Reclamation project to connect to the Pueblo Dam South Outlet Works. Other facilities that are part of the WP1B phase that will not be title transferred to Reclamation include; approximately 100 feet of 72 inch pipe for the SDS Juniper Pump Station, pipe downstream of the 90 inch by 36 inch reducer for the Pueblo West Metropolitan District pump station, as well as piping and an outfall to drain water from SDS Juniper Pump Station to the Arkansas River.
- b. "SDS Facilities" shall mean SDS facilities that are located on or off of Reclamation land that will not be title transferred to Reclamation.

#### II. Background

- a. The SDS is a non-federal regional water delivery project that is designed to meet future water needs of the SDS Participants which currently include: Utilities, the City of Fountain, Security Water District, and Pueblo West Metropolitan District (SDS Participants).
- b. Colorado Springs Utilities, an enterprise of the City of Colorado Springs, a home rule municipality, has been designated as the Project Manager for construction of the SDS.
- c. As part of the SDS, it is proposed that a pipeline will be attached to the existing River Outlet Works on Pueblo Dam in order to convey water through a pipeline to the service areas of the SDS Participants.
- d. Utilities has requested that Reclamation allow Utilities to modify the existing River Outlet Works, to construct other necessary connection facilities, and to connect these facilities to a pipeline to deliver water from Pueblo Dam for the SDS. This work commenced with Reclamation under

- MOU 09AG6C0027 which addressed the Final Design of Outlet Works Modifications at Pueblo Dam for the SDS.
- e. SDS features located on Reclamation property at Pueblo Dam include a modification to Pueblo Dam's River Outlet Works, a raw water conveyance pipeline from Pueblo Dam to a new raw water pumping station named Juniper Pump Station, Juniper Pump Station, and a raw water conveyance pipeline from Juniper Pump Station to the point it leaves Reclamation lands. Additional features such as a new sub-station and distribution power lines have also been anticipated for the SDS and will also be located on Reclamation property.
- f. The parties have agreed that all modified existing features of Pueblo Dam and certain new facilities that will be constructed by Utilities (North Outlet Works) will be owned, upon completion and acceptance, by the United States. The terms and conditions controlling the North Outlet Works referred to herein is defined in more detail in Conveyance Contract 11XX6C0005.
- g. Reclamation issued a Final Environmental Impact Statement in December 2008 for the SDS and issued a Record of Decision in March 2009.

#### III. Objective

This MOU provides a framework for Reclamation and Utilities to:

- a. Work together with consultant(s) for the design and construction of the North Outlet Works and the SDS Facilities.
- To address issues involving existing Reclamation facilities that will or may be affected by the construction of the North Outlet Works and the SDS Facilities.
- To establish Utilities' responsibility to advance funds to Reclamation to
  offset all costs incurred by Reclamation in connection with the SDS
  Project.
- d. To establish the process by which ownership of North Outlet Works facilities will be transferred to the United States, subject to the retained right of conveyance for the SDS Participants.
- e. To address and coordinate on construction, design, safety, security, public relations, cultural resources, land management, environmental mitigation, and possible additional environmental analysis related to construction of SDS Facilities.

#### IV. Scope of Work

- a. Construction Activities
  - Utilities shall be solely responsible for the procurement and construction management of activities to modify and install the North Outlet Works and the SDS Facilities. Reclamation will not be a party to the contracting and selection of contractors.
  - ii. For the North Outlet Works facilities:
    - 1. Utilities will establish a Construction Management Team to develop a Construction Management Plan (CMP). The

- CMP will define the construction management processes related to authority, procedures, and responsibilities.
- 2. Reclamation shall have a construction oversight role and shall provide staff as Reclamation determines necessary to be on site to monitor activities related to construction, safety and security. This oversight is intended to ensure that construction and any modifications are in accordance with designs approved by Reclamation and that the construction produces safe and integrated facilities. In its oversight capacity, Reclamation will not have a direct relationship with the construction contractor but will express findings and concerns through Utilities' Construction Management Team. Reclamation reserves the right to reject or require modification of any construction plans, as it determines necessary, for the proper current or future operation of the Fryingpan-Arkansas Project.
- 3. Reclamation will have personnel assigned to the Project, as it determines appropriate, to interact with Utilities and Utilities' contractors, to manage control of hazardous energies, to coordinate Special Use Permit(s), and to control access into existing facilities necessary to carry out construction and commissioning of the North Outlet Works facilities and SDS Facilities.
- 4. Reclamation, as well as Utilities' design consultants, will review construction plan submittals and modify or approve, as appropriate. Reclamation will have 21 calendar days from receipt of submittals to respond to Utilities' construction manager. Reclamation will stamp its responses as "Accepted," "Accepted - Make Corrections Noted," or "Revise and Re-Submit." Inspections of construction work are the responsibility of Utilities. Reclamation shall provide to Utilities a list of activities where Reclamation chooses to have, in addition to Utilities' inspectors, an inspector or engineer from Reclamation present to participate in an inspection. Utilities shall provide Reclamation sufficient advance notice of all activities on Reclamation's inspection list to ensure that work does not proceed without a reasonable opportunity for Reclamation to perform any inspection it has requested and in no event shall there be less than 24 hours notice. The advance notice shall be provided to Reclamation during Reclamation regular business hours. Reclamation reserves the right to inspect any or all construction work and to make unannounced inspections.
- 5. Utilities shall comply with Reclamation Safety and Health Standards.

- iii. For SDS Facilities, Reclamation will not request a right of prior review of designs or plans as a normal course of action, but does reserve the right to inspect any designs or plans upon request and to make unannounced work inspections. Reclamation reserves the right to reject or require modification of any construction plans, as it determines necessary, for the proper current or future operation of the Fryingpan-Arkansas Project.
- iv. All work activities performed on Reclamation Land must comply with all federal, state, and local laws and regulations for health and safety and all other applicable laws and regulations.

#### b. Required Permits and Agreements

Utilities shall be responsible for obtaining and complying with any and all permits necessary for the entire SDS project. This includes Special Use Permits, crossing consents, Special Work Permits, Programmatic Agreements, easements, or other land use or environmental authorizations. Utilities will participate in the review of all necessary authorizations and agreements, including proposed changes to existing authorizations, allowing sufficient time for appropriate reviews and approvals. Work required to be permitted shall not start until the applicable permits are approved. Nothing in this MOU is to be construed to require Reclamation to issue any authorization that would not ordinarily be issued under the normal course of its operations.

#### c. On-going work activities.

- Reclamation shall provide oversight and staff as Reclamation determines necessary to verify compliance with environmental monitoring identified in the Final Environmental Impact Statement dated December 2008, and the Record of Decision signed in March 2009.
- ii. Reclamation shall provide oversight and staff to perform on-going compliance, as necessary, in areas of cultural resources, land management, and environmental analysis. Reclamation will oversee on-going cultural resource work associated with the Programmatic Agreement (PA) and Master Treatment Plan. Proposed changes to the current project will be discussed with Reclamation as provided in the PA, as amended, to ensure Reclamation is meeting its compliance obligations, and to determine if the proposed changes are within the Final EIS (Dec 2008) or ROD (March 2009).

#### V. Authority and Funding

a. The work covered by this MOU will be conducted under the authority of the Federal Reclamation Act of June 17, 1902, as amended and supplemented and the Fryingpan-Arkansas (Fry-Ark) Project Act of August 16, 1962 (76 Stat. 389; 43 USC §616) as amended.

- b. There will be no Federal funding associated with the work under this MOU. All costs and expenses associated with the design and construction of the North Outlet Works facilities and the SDS Facilities are the sole responsibility of Utilities. All work and costs incurred by Reclamation, including Reclamation staff salary, benefits and other associated staffing costs, related to this project will be charged against funds advanced by Utilities to Reclamation.
- c. Utilities shall reimburse Reclamation for all unreimbursed Reclamation costs and expenses required by this MOU and this obligation shall survive termination of this MOU for any reason.
- d. Funds will be advanced from Utilities to Reclamation to pay for costs for Reclamation to perform activities identified in this agreement. A minimum net-balance of \$50,000 will be maintained pursuant to this MOU to ensure a positive account balance. Unless Reclamation and Utilities agree otherwise, whenever the balance falls below the minimum, Reclamation shall notify Utilities and Utilities shall promptly submit an additional advance. Reclamation shall provide quarterly reports to Utilities showing a summary of expenditures charged against funds advanced by Utilities and project-to-date expenditures. Utilities will be entitled to challenge any expense that it deems to be excessive or unreasonable. If a challenge is asserted, Reclamation and Utilities will promptly meet to resolve the concerns and agree on an appropriate adjustment, if any.
- e. Reclamation will, at Utilities expense, perform Personal Identity
  Verification (PIV) investigations of all personnel that Utilities designates
  as requiring unaccompanied access to a controlled access area close to or
  within the Pueblo Dam. Utilities will be responsible to pay for the
  background investigations and any other incidental costs incurred by
  Reclamation during the performance of this task. In addition, Utilities will
  be directly responsible for the costs incurred by the applicants to travel to
  the credentialing centers, and any other costs incurred by the applicants
  related to the background investigation and issuance of the Government
  badge. Additional cost may be incurred by Utilities if an applicant loses
  or does not return an issued badge to Reclamation upon completion of
  work.
- g. In accordance with the Colorado Springs City Charter, performance of Utilities' obligations under this MOU is expressly subject to appropriation of funds by the City Council. In the event funds are not appropriated in whole or in part sufficient for performance of Utilities' obligations under this MOU, or appropriated funds may not be expended due to City Charter spending limitations, then this MOU shall thereafter become null and void by operation of law, and Utilities shall thereafter have no liability for compensation or damages to Reclamation in excess of Utilities' authorized appropriation for this MOU or the applicable spending limit, whichever is less. Utilities shall notify Reclamation as soon as reasonably practicable in the event of non-appropriation or in the event a spending limitation becomes applicable.

- h. The funds appropriated for this MOU are equal to or exceed the contract amount for the year in which this MOU was awarded. For work to be completed in subsequent fiscal years, if any, Utilities will notify Reclamation as soon as possible of the amount of funds appropriated for such work that will be advanced to Reclamation after the adoption of Utilities' annual appropriation ordinance for those years. The fiscal year for Utilities coincides with the calendar year. Reclamation reserves the right to stop work associated with this MOU if the funds appropriated are insufficient to cover Reclamation's costs.
- i. The parties agree and acknowledge as a part of this MOU that no change order or other form, order or directive which requires additional compensable work to be performed under this MOU shall be issued by Utilities unless funds are available to pay such additional costs, and Reclamation has no obligation under this MOU to undertake any action unless Utilities has advanced sufficient funds to Reclamation to cover the costs associated with Reclamation's work.
- j. The parties agree to execute a Contributed Funds Act Agreement concurrent with the execution of this MOU.

#### VI. Acceptance and Title Transfer of Facilities to be Owned and Operated by Reclamation

- a. Upon completion of the North Outlet Works, or any portion of the North Outlet Works, the following process will be used to transfer ownership of those facilities from Utilities to the United States.
  - i. The Contracting Officer and Utilities will conduct a joint above ground inspection and a functional test of the North Outlet Works to determine if the facilities to be transferred are in operating condition.
  - ii. The Contracting Officer will perform a Risk Verification assessment.
  - iii. Following the inspection, Utilities will prepare a Final Transfer Report which will include the following information:
    - 1. A general description of the facilities being transferred, including associated equipment and buildings.
    - 2. The effective date of the transfer agreed upon by the Contracting Officer and Utilities.
    - 3. The date of the transfer inspection.
    - 4. Copies of the construction contract(s) and specifications.
    - 5. The OM&R history of the facilities being transferred.
    - 6. A description of the general condition and sufficiency of the structures and equipment being transferred.
    - 7. Copies of necessary instruction including the Designer's Operating Criteria, Design Summary, revised Standard Operating Procedures pages, revised Emergency Action Plan pages, and other appropriate operating documents.

- 8. Copies of "As-Built" drawings for the facilities to be transferred and construction inspection reports.
- 9. A description of deficiencies found during the transfer inspection including work items needing completion, recommendations made during the transfer inspection, and observations not considered construction deficiencies but which would be valuable information for future examiners.
- 10. Photographs of newly constructed or modified North Outlet Works facilities as well as other items noted in the inspection report for future reference.
- iv. After addressing and correcting all deficiencies found during the transfer inspection, Utilities shall submit two copies of the Final Transfer Report, provided in both paper form and in an electronic "word searchable pdf format" to the Contracting Officer, along with a written request that the North Outlet Works component be transferred to OM&R status. If the Contracting Officer determines the Transfer Report is complete, the Contracting Officer will sign the Transfer Report and will provide a copy to Utilities.
- b. The Contracting Officer may at any time assume control and operation of any facility constructed or under construction as a part of the North Outlet Works, if the Contracting Officer determines, in the Contracting Officer's sole discretion within the bounds of applicable laws and regulations, that such action is necessary to prevent or correct any adverse impact to the Fry-Ark Project.
- c. After transfer, if it is determined that a specific feature is not properly operating, repairs will be made according to the Conveyance Contract referenced in Article III(c).
- d. At and after the time of transfer of title, Utilities shall be entitled to a right to utilize sufficient capacity in the North Outlet Works facilities to continuously convey 96 mgd of raw water.

#### VII. Ownership and Operation

- a. The parties have entered into this MOU with the understanding that the exact extent of North Outlet Works facilities, ownership of which will be transferred to the United States, will be agreed to as design of the facilities associated with the SDS Project continues. The parties have agreed that all facilities constructed pursuant to WP-1A will be North Outlet Works facilities. For the purpose of this MOU, WP-1A means all the works consisting of a connection to the existing downstream cast iron flange on the outlet gate of the River Outlet Works in Buttress No. 16, a stainless steel tunnel liner, a Fixed Cone Valve Facility housing a 60 inch isolation and a 60 inch fixed cone valve, a new 480 volt 3-phase electrical feed, instrumentation and controls for the new devices, and a 90-inch welded steel pipeline.
- b. Although the United States will own the North Outlet Works, Utilities will be responsible for payment of OM&R costs associated with the North

Outlet Works according to the contract between the United States of America and the City of Colorado Springs for Conveyance. The parties understand that this MOU may need to be amended from time to time as additional facilities are identified by the parties as North Outlet Works facilities.

#### VIII. Terms of MOU

- a. Period:
  - i. The term of this MOU is through December 31<sup>st</sup>, 2016, and is renewable thereafter on a year by year basis.

#### b. Termination:

- i. This MOU may be terminated upon mutual written agreement by the parties or thirty (30) day written notice of either party.
- ii. If the MOU is terminated, any funds previously advanced to Reclamation will be accounted for, any costs or expenses appropriately charged against those funds not previously charged will be deducted and the difference, if any, returned to Utilities within sixty (60) days of the termination of this MOU.
- c. Amendment: This MOU may be amended at any time by written consent of the official signatories of the parties.

#### IX. Required Clauses

- a. During the performance of this MOU, the participants agree to comply with the terms of Executive Order 11246 on nondiscrimination and will not discriminate against any person because of race, color, religion, sex, or national origin.
- b. No member or delegate to Congress, or resident Commissioner, shall be admitted to any share or part of this MOU or to any benefit arising from it.
- c. Nothing herein shall waive, modify or limit the applicability of the Colorado Governmental Immunity Act to claims under this MOU or to any claims of third parties.

#### X. Document Handling

- a. Reclamation Non-Disclosure
  - i. Drawings, specifications, photographs, or other documents that supply sensitive information about the dam and associated facilities shall not be available to the general public: This information is FOR OFFICIAL USE ONLY and must be protected. This U.S. Government data may be exempt from further public release under the Freedom of Information Act (5 U.S.C. 552) and Colorado Records Act, C.R.S. § 24-72-201 et seq. This information must be controlled in accordance with applicable Bureau of Reclamation directives. The further distribution of this information requires prior approval from an authorized Reclamation official.

- ii. Individuals receiving copies of drawings, specifications, photographs, or other sensitive documents not available to the general public must sign a Federal Non-Disclosure Agreement.
- b. Public Dissemination of Information

Any photography or videography of the federal facilities used for public dissemination or media attention should be coordinated through the Eastern Colorado Area Office Safety & Security Specialist, Howard Bailey.

#### XI. Key or Responsible Personnel

a. Reclamations Representative for MOU:

Karl Thiel, Activity Manager
Bureau of Reclamation Eastern Area Office
11056 W. County Road 18E
Loveland, Colorado 80537
(970) 962-4331
kthiel@usbr.gov

b. Colorado Springs Utilities Representative for MOU:

Steve Duling, Project Manager
Colorado Springs Utilities
121 South Tejon St.
PO Box 1103, Mail Code 0930
Colorado Springs, Colorado 80947-0930
(719) 668-8706
sduling@csu.org

## Standard Forms

#### **Southern Delivery System**

TRANSMITTAL No. 00763

P.O. Box 1103

Colorado Springs Utilities Colorado Springs, Co 80947

**PROJECT:** Pueblo Dam Connection 1A **DATE:** 2/5/2013

TO: REF:

#### ATTN:

WE ARE SENDING:	SUBMITTED FOR:	ACTION TAKEN:
☐ Shop Drawings	☐ Approval	☐ Approved as Submitted
Letter	☐ Your Use	☐ Approved as Noted
☐ Prints	☐ As Requested	Returned After Loan
Change Order	Review and Comment	☐ Resubmit
Plans		☐ Submit
Samples	SENT VIA:	☐ Returned
☐ Specifications	☐ Attached	☐ Returned for Corrections
Other:	☐ Separate Cover Via:	☐ Due Date:

CC:	Signed:
	Greg Minnick

#### **Bureau of Reclamation**

Denver Federal Center 6th & Kipling, Bldg. 67 Denver, CO 80225

Phone: 970-962-4331

REQUEST FOR QUOTE No. 00001

TLE:

Survey Work

**DATE: 2/5/2013** 

PROJECT: Pueblo Dam Connection 1B/PWC

CONTRACT NO: 10AG6C0066

CONTRACTOR: Attn: Steve Duling

Colorado Springs Utilities

MSC 0930 P.O. Box 1103

Colorado Springs, CO 80947

Phone: 719-668-8706

Item 00001 Description

Continue Survey Work

Quantity Units

1

**Unit Price** 

Total

\$25,000.00

\$25,000.00

Grand Total:

\$25,000.00

This quote is submitted pursuant to and expressly conditioned upon the performance of the terms and conditions of the Contract identified above and shall remain subject to acceptance for ninety (90) days after submission to Utilities.

By:		
	Steve Duling	
Date:		

#### **Bureau of Reclamation**

Denver Federal Center 6th & Kipling, Bldg. 67 Denver, CO 80225

Phone: 970-962-4331

WORK CHANGE DIRECTIVE No. 00001

TITLE:

Survey Work

DATE: 2/5/2013

**PROJECT:** Pueblo Dam Connection 1B/PWC

CONTRACT NO: 10AG6C0066

**CONTRACTOR:** Attn: Steve Duling

Colorado Springs Utilities

MSC 0930 P.O. Box 1103

Colorado Springs, CO 80947

Phone: 719-668-8706

The execution of this Work Change Directive is expressly conditioned upon the performance of the terms and conditions of the Contract identified above. If the Work Change Directive involves an increase in Agreement Price or Agreement Times, the estimated cost or duration shall not be exceeded without further authorization from UTILITIES.

If the Work Change Directive affects Agreement Price or Agreement Times, a claim for a Change Order will be based on the following estimate:

APPROVAL:			
Ву:	****	By:	
Ste	eve Duling	Karl Tl	niel
Date:		Date:	

**Colorado Springs Utilities** 

MSC 0930
P.O. Box 1103
Phone: 719-668-8706
Colorado Springs, CO 80947

CHANGE ORDER No. A0002

ΓLE:

PROJECT: Pueblo Dam Connection 1B/PWC

TO:

Attn: Karl Thiel

Bureau of Reclamation Denver Federal Center 6th & Kipling, Bldg. 67 Denver, CO 80225 Phone: 970-962-4331

**DESCRIPTION OF CHANGE** 

Reason for Change:

**DATE:**2/5/2013

CONTRACT NO:10AG6C0066

PR NO:

#### **Southern Delivery System**

MEETING MINUTES No. 00022



PROJECT TITLE: Pueblo Dam Connection 1B/PWC

**MEETING DATE: 2/5/2013** 

**LOCATION:** LYSC

**SUBJECT:** Progress Meeting

DID			
ATTEND	INITIALS	ATTENDEE NAME	COMPANY NAME
Y	HB	Howard Bailey	Bureau of Reclamation

**ITEM** 

DESCRIPTION

STATUS STARTED DUE

**BALL IN COURT** 

00001

Safety

NEW

Prepared By: Southern Delivery System

Signed:
Gayle Sturdivant

**Dated:** 2/5/2013



It's how we're all connected

#### SUBMITTAL REVIEW

Please email response to SDS Document Controls

121 South Tejon Street 3<sup>rd</sup> Floor Colorado Springs CO 80947 The basic steps are: Name the document containing the comments: Project\_Submittal Response\_Submittal Number –

name of commenter (Submittal Response\_SDS)

Subject Line: Project: Submittal Number-Submittal Response

Project:		
Submittal No.:	NO EXCEPTIONS TAKEN	MAKE CORRECTIONS NOTED
Description	AMEND AND RESUBMIT	REJECTED SEE REMARKS
Description:	REVIEWED BY:	DATE:
Spec. Section:	DURING THIS REVIEW DO NO	IADE ON CONTRACTORS SHOP DRAWINGS OT RELIEVE THE CONTRACTOR FROM RAWINGS AND SPECIFICATIONS. THIS SHOP
Submitted By:	AND GENERAL COMPLIANCE WI CONTRACTOR IS RESPONSIBLE F	OR CONFORMANCE WITH DESIGN CONCEPT ITH THE CONTRACT DOCUMENTS ONLY. 'OR CONFIRMING AND CORRELATING ALL ABBRICATION PROCESSES AND TECHNIQUES.
Reviewer:		ER TRADES, AND SATISFACTORY AND SAFE

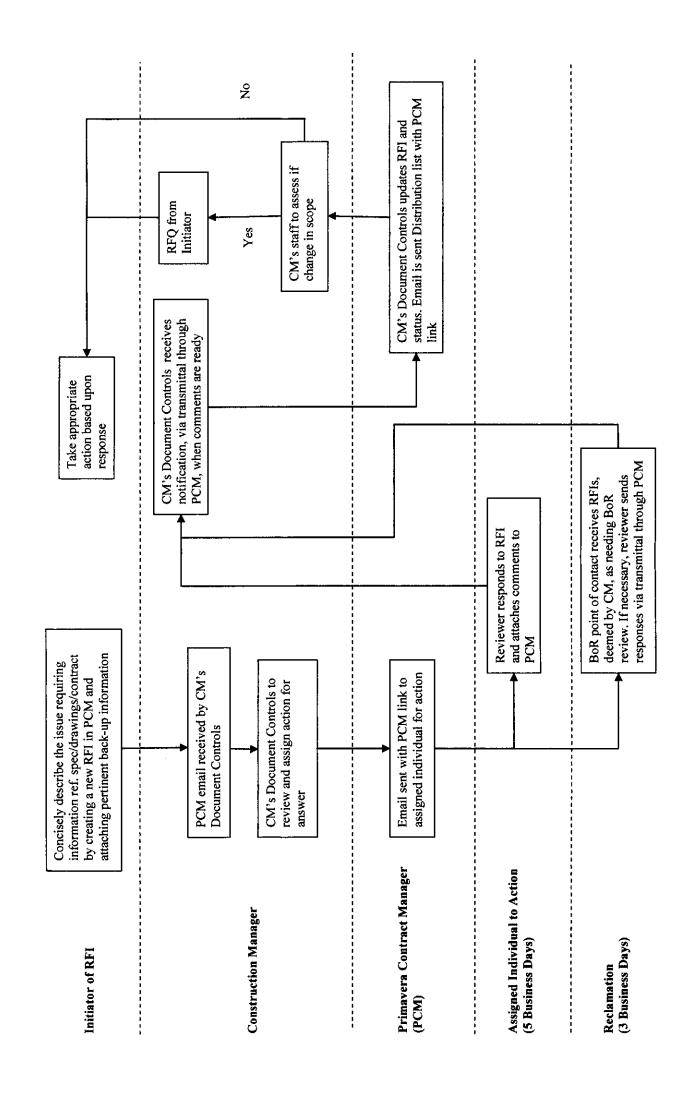
#### **Review Comments:**

APPENDIX F

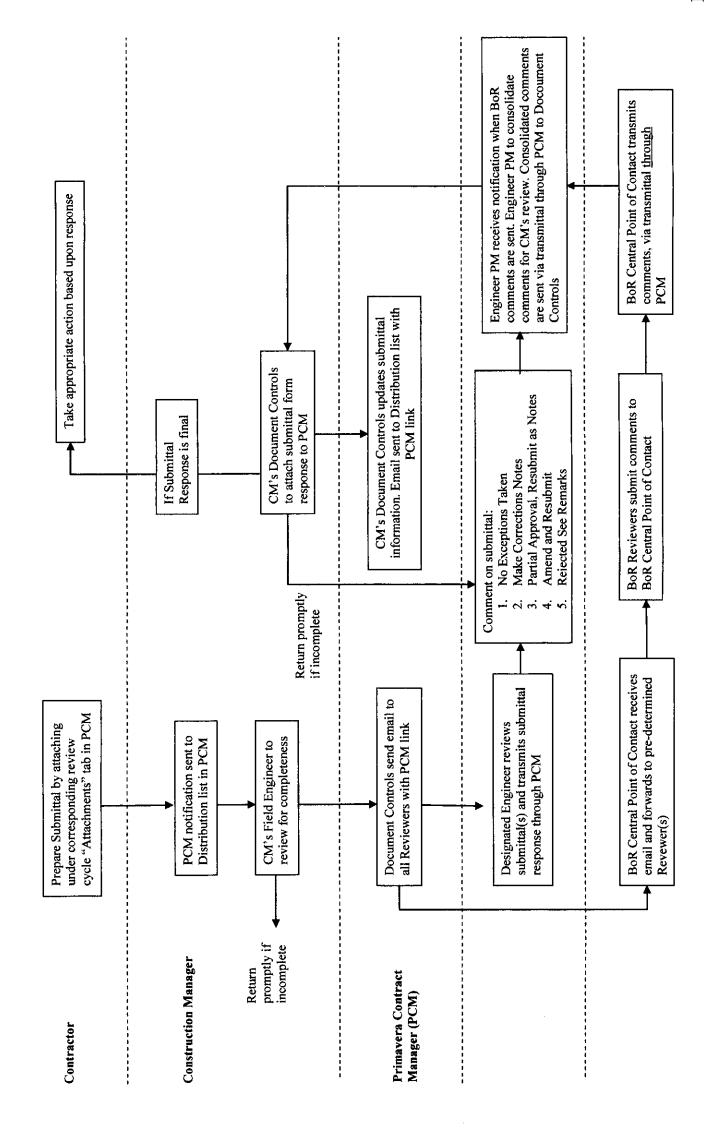
**Process Flow Diagrams** 

# SDS - PUEBLO DAM CONNECTION RFI WORKFLOW

APPENDIX D



# SDS - PUEBLO DAM CONNECTION PROPOSED SUBMITTAL WORKFLOW



#### APPENDIX E

# CONTRACTOR's Submittal Log and Submittal Numbering System

Submittal Section	Clause or Section Title	Submittals Required	Due Date or Delivery Time	Program Reviewer	RECLAMATION Reviewer	Pueblo West Reviewer	Type *
01 14 19	Use of Site	Pre-Existing Condition Assessment		CM - MWH			1
01 22 13	Unit Price Measurement and Payment	Schedule of Estimated Progress Payments		CM - MWH			1
01 22 13	Unit Price Measurement and Payment	Application for Payment: Monthly		CM - MWH			1
		Final Application for Payment	1	CM - MWH			1
01 22 13	Unit Price Measurement and Payment	Value Engineering Cost		CM - MWH			A
01 24 13	Value Engineering	Proposal Schedule of Values for Pay		CM - MWH			A
01 29 73	Schedule of Values	Items Schedule of Values for Bid	-	CM - MWH			A
01 29 73	Schedule of Values	Adjustment SOQ for Land Survey or Civil		CM - MWH			+ , -
01 12 00 01 31 13	Project Coordination Project Coordination	Engineer Daily Water Use Reports		CM - MWH			1
01 31 13	Project Coordination	Site Personnel		CM - MWH			
01 31 13	Project Coordination	EAL -List of Personnel Onsite		CM - MWH			1
01 31 13 01 31 13	Project Coordination Project Coordination	Form OF 306 Copies of Drivers Licenses		CM - MWH			
		Vehicle Registration		CM - MWH			i
01 31 13	Project Coordination Project Coordination	Information FVA Utility Crossing Plan		CH2M HILL - S. Harrison			A
10,7360		Pueblo West Pipeline Utility		CH2M HILL - S. Harrison			Ä
01 31 13	Project Coordination	Crossing Plan Hydrostatic Testing Source		CH2M HILL - S. Harrison			A
01 31 13 01 31 13	Project Coordination Project Coordination	Water Location and Plan FVA Emergency Repair Plan	-	CH2M HILL - S. Harrison	1	1 1 1 1 1	A
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		PWMD Contingency Plan for		CH2M HILL - S. Harrison			Â
01 31 13 01 32 16	Project Coordination Construction Schedule	Emergency Water Supply Preliminary Schedule		CM - MWH			
01 32 16	Construction Schedule	Basline Schedule		CM - MWH			1
01 32 16 01 32 16	Construction Schedule Construction Schedule	Submittal Schedule Progress Schedule		CM - MWH		1	
01 32 16	Construction Schedule	Monthly Cost and Narrative Progress Report		CM - MWH			1
1,300,30	Construction Schedule	3-Week Look Ahead Schedule		CM - MWH			1
01 32 16		SOQ for Professional		CM - MWH			1
01 32 34	Photographic and Video Documentation	Videographer SOQ for Professional		CM - MWH			1
01 32 34 01 32 34	Photographic and Video Documentation Photographic and Video Documentation	Photographer Digital Images		CM - MWH			
01 32 34	Photographic and Video Documentation	Video Recordings		CM - MWH			1
01 33 29	Sustainable Construction	Sustainable Construction Plan		CM - MWH			1
			<del> </del>				
01 33 29	Sustainable Construction	Monthly Purchasing Reports		CM - MWH			
1.18 9025	Control of the Contro	Monthly Report on diesel and		CM - MWH			1
01 33 29 01 35 29	Sustainable Construction Health and Safety	Monthly Report on diesel and biodiesel use Safety Plan		CM - MWH	EACO-D Hartman		I A
01 33 29	Sustainable Construction	Monthly Report on diesel and biodiesel use		CM - MWH	EACO-D Hartman EACO-D Hartman EACO-D Hartman		1
01 33 29 01 35 29 01 35 29 01 35 29	Sustainable Construction Health and Safety Health and Safety Health and Safety	Monthly Report on diesel and biodiesel use Safety Plan Emergency Response Plan		CM - MWH CM - MWH	EACO-D Hartman		A A
01 33 29 01 35 29 01 35 29 01 35 29 01 35 29	Sustainable Construction Health and Safety Health and Safety Health and Safety Health and Safety	Monthly Report on diesel and biodiesel use Safety Plan Emergency Response Plan Material Safety Data Sheets Emergency Preparedness Plan Copies of permits and		CM - MWH CM - MWH CM - MWH CM - MWH	EACO-D Hartman EACO-D Hartman		A A
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01 33 29 01 35 29 01 35 29 01 35 29 01 35 29	Sustainable Construction Health and Safety Permits	Monthly Report on diesel and biodiesel use Safety Plan Emergency Response Plan Material Safety Data Sheets Emergency Preparedness Plan Copies of permits and approvals Copies of compliance reports Evidence of permit close-out		CM - MWH	EACO-D Hartman EACO-D Hartman		A A I A I I I I I I I I I I I I I I I I
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Submittal Section	Clause or Section Title	Submittals Required	Due Date or Delivery Time	Program Reviewer	RECLAMATION Reviewer	Pueblo West Reviewer	Type *
		Contractor Quality Control		CM - MWH			
01 45 16.13	Contractor Quality Control	Reports Contractor's field office,		CM - MWH			1
01 52 00	Construction Facilities	storage yard, and storage building plans					
		Qualifications - Traffic Control		CM - MWH			1
01 55 26 01 55 26	Traffic Control Traffic Control	Supervisor Traffic Control Plan & Others	<del>                                     </del>	CM - MWH	EACO-D Hartman		1
	Traffic Control	Weekly Traffic Control Diary		CM - MWH			1
01 55 26	Traffic Control	Pueblo County Access Permits		CIVI - MIVVII			
01 55 26	Traffic Control	Traffic Control Phasing Plan Supervisor Qualifications		CM - MWH			1
	Traffic Contol Staging Areas	Staging area Plan		CM - MWH			i
	Temporary Environmental Controls	Environmental Constraints Plan		CM - MWH			Α
01 57 19 01 57 19	Temporary Environmental Controls	Water Control Plan		CM - MWH			A
01 57 19	Temporary Environmental Controls Temporary Environmental Controls	Fugitive Dust Control Plan Noise Control Plan		CM - MWH	EACO-D Hartman EACO-D Hartman		A
01 57 19		Maintenance of Construction		CM - MWH			Α
01 57 19	Temporary Environmental Controls	Work Limits Spill Prevention, Control, and		CM - MWH	5400 511-4		A
01 57 19	Temporary Environmental Controls	Countermeasures Plan			EACO-D Hartman		
01 57 19 01 57 19	Temporary Environmental Controls Temporary Environmental Controls	Spill Contingency Plan Work Area Plan		CM - MWH	EACO-D Hartman	+	A
01 57 19	Temporary Environmental Controls	Environmental Field Logs		CM - MWH			
01 57 19	Temporary Environmental Controls	Material Conformance Letter - Asbestos		CM - MWH	EACO-D Hartman	1 2 2 2 2 2 2	
15 Mary 16		Emission Test Results for		CM - MWH			1
01 57 19 01 57 19	Temporary Environmental Controls Temporary Environmental Controls	construction equipment Sign-In Sheets		CM - MWH			1
1 N.5995	Stormwater Pollution and Temporary Erosion and Sediment Control	Certificate of inspection of seed		CM - MWH			100
01 57 22	Stormwater Pollution and Temporary Erosion and	Certificates of weed-free		CM - MWH		- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	1
01 57 22	Sediment Control	mulch Certificate of Compliance -		CM - MWH	1	+	1
	Stormwater Pollution and Temporary Erosion and	Erosion and Sediment Control					
01 57 22	Sediment Control Stormwater Pollution and Temporary Erosion and	Products SWMP Booklet	<u> </u>	CM - MWH			. 1
01 57 22	Sediment Control	01410 15 1-0-1-1	ļ	CM - MWH			
01 57 22	Stormwater Pollution and Temporary Erosion and Sediment Control	SWMP and Erosion Control Plan					
01 58 00	Project Sign Product Storage and Handling Requirements for	Color proof sheet Hazardous Materials		CM - MWH	EACO- D Hartman		A
01 66 13	Hazardous Materials	Management Plan			DAGG B Haranan		
		Procedures for Maintaining and Markup of Record		CM - MWH			
01 77 00	Closeout Procedures	Documents					
01 77 00	Closeout Procedures	Hydrostatic testing drain plan		CM - MWH			1 1
01 77 00	Closeout Procedures	Record Documents		CM - MWH			
		Special bonds, Special Guarantees, and Service		CM - MWH			
01 77 00	Closeout Procedures	Agreements Consent of Surety to Final	-	CM - MWH			
01 77 00	Closeout Procedures	Payment					
01 77 00	Closeout Procedures	Releases of Waivers of Liens and Claims		CM - MWH			
01 77 00	Closeout Procedures	Releases from Agreements		CM - MWH			
01 77 00	Closeout Procedures	Final Application for Payment		CM - MWH			
017700	Closeout Procedures	Extra Materials		CM - MWH			
01 77 00	Cioseout Procedures	Permit Closeout Documentation		CM - MWH			- 1 · 1
	Operation and Maintenance Data: Supplement:	Data Outline		CM - MWH			. 1
01 78 23	Maintenance Summary Form Operation and Maintenance Data: Supplement:	Preliminary Data		CM - MWH		1	1
01 78 23	Maintenance Summary Form Operation and Maintenance Data: Supplement:	Final Data	-	CM - MWH			1
01 78 23	Maintenance Summary Form						
01 91 14	Equipment Testing	Functional and performance test results		CM - MWH			
02 24 32	Backfill Grouting	Qualifications Field Representative		CH2M HILL - H. Rojas CH2M HILL - H. Rojas			
02 24 32	Backfill Grouting	Approvals					
02 24 32	Backfill Grouting Backfill Grouting	Work Plan Pre-Placement Test Reports		CH2M HILL - H. Rojas CH2M HILL - H. Rojas			
02 24 32 02 24 32	Backfill Grouting	Daily Reports and Records		CH2M HILL - H. Rojas			
02 24 32 02 24 32	Backfill Grouting Backfill Grouting	Product Data Equipment	-	CH2M HILL - H. Rojas CH2M HILL - H. Rojas			A
2785e Y		Shop Drawings: Reinforcing		CH2M HILL - H. Rojas	TSC-8180 White		A
03 30 10	Structural Concrete Structural Concrete	Steel Shop Drawings: Waterstop		CH2M HILL - H. Rojas	TSC-8180 White		A
		Shop Drawings: Construction Joints		CH2M HILL - H. Rojas	TSC-8180 White		A
03 30 10 03 30 10	Structural Concrete Structural Concrete	Mix Design		CH2M HILL - H. Rojas	TSC-8180 White		A
03 30 10	Structural Concrete	Product Data Cold Weather Plan		CH2M HILL - H. Rojas CH2M HILL - H. Rojas	TSC-8180 White TSC-8180 White		A
03 30 10 03 30 10	Structural Concrete Structural Concrete	Hot Weather plan		CH2M HILL - H. Rojas	TSC-8180 White		A
03 30 10	Structural Concrete	Concrete Repair Techniques Preinstallation Conference		CH2M HILL - H. Rojas CH2M HILL - H. Rojas	TSC-8180 White		A
03 30 10	Structural Concrete	minutes					7 7
		Manufacturer's application instructions for bonding agent	ts	CH2M HILL - H. Rojas			
03 30 10	Structural Concrete			CU2M LIII L. U. Pains			
03 30 10	Structural Concrete	Manufacturer's Certificates of Compliance		CH2M HILL - H. Rojas			

Section   Sect	Submittal	Clause or Section Title	Submittals Required	Due Date or	Program Reviewer	RECLAMATION	Pueblo West	Type *
Secretary Switzer   Secr	Section			Delivery Tane		Reviewer	Reviewer	
Display   Student Concerns	03 30 10	Structural Concrete					<b>}</b>	
Description Comments	03 30 10	Structural Concrete		ļ	Crizmi nill n. rojes			
September   Sept			Concrete Delivery Tickets					1
STATE   Processing					CH2M HILL - H. Rojas			A
Color   Colo					CH2M HILL . H. Roiss	-		Α
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September   Participation   Structures   S								
Stock   Stoc				1	CH2M HILL - H. Rojas	ŀ		Α :
Mean Februations	05 50 00	Metal Fabrications		<del></del> -	CH2M HILL . H. Rolas		<del>                                     </del>	A
Post   December   Productions   Production	05 50 00	Metal Fabrications			G. Elli III.		1	
Description			Instructions for concrete		CH2M HILL - H. Rojas			Α
1.55   20	05 50 00	Metal Fabrications			0.004			
Control   Cont	06.60.00	Mate Extractions		ļ	CHZM HILL - H. Rojas		1	'
Section   March Februarion   M	03 30 00	Media Fabricatoris			CH2M HILL - H. Rojas			
Government Steen Facilings	05 50 00	Metal Fabrications						
Strong   Strong   Strong Desirings   CHIAN HELL - H. Ropas   A					CH2M HILL - H. Rojas			A
Section   Communication   Co	05 52 19	Galvanized Steel Raitings		<del>                                     </del>	CURN UIT . U Ocies		1	
Str.   Committee   Strate   Parillage	05 52 10	Galvanized Steel Railings		l	SHIZM THUL - H. AUJOS			^
SS 179   General Start Flashings	W W 10	manufacture and Campus &		1	CH2M HILL - H. Rojas			Α
SS 12   General Steel Rangis	05 52 19	Gatvanized Steel Railings		<u></u>				
1	05 52 19	Galvanized Steel Railings				ļ <u>.</u>		
St. 2008   Market Grintings				<u> </u>			ļ	1
Sep   Serving			Shop Drawings: Gotting	<del>                                     </del>		<del> </del>		À
Acctorage	www	move crossings		l				
A	05 53 00B	Metal Gratings	Anchorage	ļ				
Shop Drewings	AF 50 5		Shop Drawings: Product Data	1	CH2M HILL - H. Rojas			A
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12.2   Pipe Joint Coding - West Seriors Backet   Materials List				1		1		
09 81 12   Pipe Joint Coating - Weld Before Backfill   Semples   CHOM HILL T. Price   A	09 81 12	Pipe Joint Coating - Weld Before Backfill	Materials List			TSC-8180 Skaja		
Decay   Parking   Short   Sh				ļ			ļ	
09 90 A   Parting   Sheets	09 81 12	Pipe Joint Coating - Weld Before Backfill				TSC-8180 Strain		
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Factory Applied Coatings								
Manufacturer's Certification   Manufacturer's Certification   Manufacturer's Certification   Manufacturer's Certification   Certificate of Compilatione   CH2M HILL - T. Prince   TSC-8180 Stage   A   General Certificate of Certifi	09 90 04	Painting				E400 01111	<u> </u>	
Ope 20		i			CHZM HILL - 1. Phce	EACO- D Hartman		'
Costing Manufacturer's   CH2M HILL - T. Price   A	00.00.04	Painting	Martiacurer's Caurcauch		•			
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Material Sirkey Data Sheets   CH2M HILL - T. Price   EACO-D Hartman   A				<u> </u>				
Technical and performance   CH2M HILL - T. Price   A				ļ <u>.</u>				
Degree   Polyurethane Coating   Information   Children   Childre	09 90 05	Polytremane Costing		<u> </u>		EACO-D Flauria		
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On 99 14 Mussel Control Coating Chemical and Gradation Analysis Children Coating Analysis Children Coating Samples Children Child	09 97 14	Mussel Control Coating		1	CH2M HILL - T. Price	ISC-8180 Skaja		^
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O9 97 14 Mussel Control Coating Applicator qualifications CH2M HILL - T. Price I Shop and Field applicators qualify control program CH2M HILL - T. Price I Shop and Field applicators qualify control program CH2M HILL - T. Price I Shop and Field applicators qualify control program CH2M HILL - T. Price I Shop and Certificate of proper install Contractor references for self-contractor tereferences for self-contractor for s	09 97 14	Mussel Control Coating	Pipe coating sequence			1		
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Proper installation  D9 97 14 Mussel Control Coating Pre-Installation Meeting CH2M HILL - T. Price i  Testing, Adjusting, and Balancing for HVAC Experience record of testing authority  Testing, Adjusting, and Balancing for HVAC Current AABC or NEBB CH2M HILL - W. Evans  Testing, Adjusting, and Balancing for HVAC Current AABC or NEBB  CH2M HILL - W. Evans  Testing, Adjusting, and Balancing for HVAC Test and balance procedures  Testing, Adjusting, and Balancing for HVAC Test and balance procedures  CH2M HILL - W. Evans				ļ			+	
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23 05 93 Testing, Adjusting, and Balancing for HVAC Current AABC or NEBB CH2M HILL - W. Evans  23 05 93 Testing, Adjusting, and Balancing for HVAC Test and balance procedures CH2M HILL - W. Evans	23 05 93	Testing, Adjusting, and Balancing for HVAC	Experience record of testing	1	CH2M HILL - W. Evans			1
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	23 05 93	Testing, Adjusting, and Balancing for HVAC			CH2M HILL - W. Evans			1
		Testing, Adjusting, and Balancing for HVAC		1				}

Submittal Section	Clause or Section Title	Submittals Required	Due Date or Delivery Time	Program Reviewer	RECLAMATION Reviewer	Pueblo West Reviewer	Туре
23 05 93	Testing, Adjusting, and Balancing for HVAC Metal Ducts and Accessories	Balancing log report Product Data: Rectangular.	-	CH2M HILL - W. Evans CH2M HILL - W. Evans			
23 31 13	Metal Ducts and Accessories	Rigid Round, and Oval	1	CHZM HILL - W. EVARS		·	^
	1	Ductwork					
23 31 13	Metal Ducts and Accessories	Product Data: Ductwork		CH2M HILL - W. Evans			A
** ** **		Accessories		CUCHANILL MI France	TSC-8410		A
23 34 00	HVAC Fans	Product Data Or Equal Equipment	<del> </del>	CH2M HILL - W. Evans CH2M HILL - W. Evans	TSC-8410		<del>-   ^</del>
23 34 00	HVAC Fans	Siesmic Anchorage	<b>-</b>	CH2M HILL - W. Evans	TSC-8410		
23 34 00	HVAC Fans	Protection and Handling		CH2M HILL - W. Evans	TSC-8410		
23 34 00	HVAC Fans	Installation Instructions		CH2M HILL - W. Evans	TSC-8410		
23 34 00	HVAC Fans	Certificate of Compilance		CH2M HILL - W. Evans	TSC-8410		
23 34 00	HVAC Fans	Testing Siesmic Certification	ļ	CH2M HILL - W. Evans CH2M HILL - W. Evans	TSC-8410 TSC-8410		<del></del>
23 34 90 23 34 00	HVAC Fans HVAC Fans	Test Reports O&M Data	-	CH2M HILL - W. Evans	TSC-8410		<del>-  -  </del>
23 37 00	Air Outlets and inlets	Shop Drawings	<del>                                     </del>	CH2M HILL - W. Evans	TSC-8410		À
23 82 00	Terminal Heating and Cooling Units	Specifications, drawings,		CH2M HILL - W. Evans	TSC-8410		A
		catalog cuts and literature	<u> </u>				
23 82 00	Terminal Heating and Cooling Units	Standard finish color selection		CH2M HILL - W. Evans	TSC-8410		A
23 82 00	Territorial Martine and Capitas Units	Performance data		CH2M HILL - W. Evans	TSC-8410		<del>-   -</del>
24 82 00	Terminal Heating and Cooling Units Terminal Heating and Cooling Units	Procedures for Protection and	<del> </del>	CH2M HILL - W. Evans	TSC-8410		<del>-                                     </del>
44 DE 00	Territoria (1000) and occording of	Handling	1				
		Manufacturer's data: Electrical		CH2M HILL - J. James	TSC-8430		A
	}	service components					
26 05 02	Basic Electrical Requirements			0.(01118(1 1 )	700 0120		A
		Manufacturer's data: Namepiates, signs, and labeis		CH2M HILL - J. James	TSC-8430		^
26 05 02	Sasic Electrical Requirements	reproperties, and is issues		1			
		Manufacturer's data: Control		CH2M HILL - J. James	TSC-8430	1	Α.
26 05 04	Basic Electrical Materials and Methods	Devices					
28 05 04	Basic Electrical Materials and Methods	Control Relays		CH2M HILL - J. James	TSC-8430		A
26 05 04	Basic Electrical Materials and Methods	Circuit breakers	<b></b>	CH2M HILL - J. James	TSC-8430 TSC-8430	<del>   </del>	<del> </del>
26 05 04	Basic Electrical Materials and Methods	Fused switches Nonfused switches	<del> </del>	CH2M HILL - J. James CH2M HILL - J. James	TSC-8430	<del></del>	2
26 05 04 26 05 04	Basic Electrical Materials and Methods  Basic Electrical Materials and Methods	Times	<del>                                     </del>	CH2M HILL - J. James	TSC-8430		1 2
26 05 04	Basic Electrical Materials and Methods	Fuses	<del> </del>	CH2M HILL - J. James	TSC-8430		A
28 05 04	Basic Electrical Materials and Methods	Magnetic contactors	<b></b>	CH2M HILL - J. James	TSC-8430		A
26 05 04	Basic Electrical Materials and Methods	Enclosures		CH2M Hitt - J. James	TSC-8430		Ä
26 05 05	Conductors	Wire and cable information		CH2M HILL - J. James			A
26 05 05	Conductors	Cable Accessories		CH2M HILL - J. James			A
26 05 05	Conductors	Cable pulling calculations		CH2M HILL - J. James			^
26 05 05	Conductors	Factory Tests for Conductors 600V and below		CH2M HILL - J. James			'
26 05 05	Conductors	Factory Tests for Conductors	<del>                                     </del>	CH2M HILL - J. James	<del></del>		
20 03 03	Curdous	above 600V					
		Shop Drawings: Exothermic	i	CH2M HILL - J. James			A
26 05 26	Grounding and Bonding for Electrical Systems	Weld Connectors	<u> </u>				<del></del>
		Shop Drawings: Mechanical	ļ	CH2M HILL - J. James			A
26 05 26	Grounding and Bonding for Electrical Systems	Connectors Shop Drawings: Compression		CH2M HILL - J. James			1 A
26 05 26	Grounding and Bonding for Electrical Systems	Connectors	]				
26 05 33	Raceway and Boxes	Manufacturer's Literature:		CH2M HILL - J. James			A
		Rigid Galvanized Steel	1				
		Conduit		OUOM HILL I Immee			A
26 05 33	Raceway and Boxes	Manufacturer's Literature: Rigid Aluminum Conduit		CH2M HILL - J. James		ŀ	^
26 05 33	Receway and Boxes	Manufacturer's Literature: PVC	<del></del>	CH2M HILL - J. James			— <del> </del> A
20 00 00	1.000.07	Schedule 40 conduit	1				
26 05 33	Raceway and Boxes	Manufacturer's Literature:		CH2M HILL - J. James			T A
		Flexible metal, liquid tight		1			- 1
70 Cr **	Consulation Report	conduit Manufacturer's Literature:	<del> </del>	CH2M HILL - J. James			
26 05 33	Raceway and Boxes	Flexible, nonmettatic, liquid-		Crizm HILL - 3. Jailles			'
		tight conduit				1	
26 05 33	Raceway and Boxes	Manufacturer's Literature:	Ţ	CH2M HILL - J. James			A
		Conduit Fittings	ļ	<u> </u>			
26 05 33	Raceway and Boxes	Manufacturer's Literature:	l	CH2M HILL - J. James			^
		Junction and pull boxes used at or below grade	1				1
26 05 33	Raceway and Boxes	Manufacturer's Literature:	1	CH2M HILL - J. James		<u> </u>	A
	1	Large junction and pull boxes	1	1			1
		1		1			
26 05 33	Raceway and Boxes	Manufacturer's Literature:	1	CH2M HILL - J. James			Α
20.05.00	Raceway and Boxes	Terminal junction boxes Siesmic Certificate	+	CH2M HILL - J. James			<del></del>
26 05 33 26 05 33	Raceway and Boxes Raceway and Boxes	Manufacturer's certification of	<del>†                                    </del>	CH2M HILL - J. James			
20 00 00	, record and proces	training	1				
26 06 00	Commissioning of Electrical Systems	Inspections and Tests	1	CH2M HILL - J. James			1
		Information	ļ				
26 08 00	Commissioning of Electrical Systems	Inspection or Test reports		CH2M HILL - J. James			
26 08 00	Commissioning of Electrical Systems	Operation and Maintenance	1	CH2M HILL - J. James			
20 25 25	Law Malana AC Industry Materia	Data Descriptive Information	+	CH2M HILL - J. James	TSC-8430		
26 20 00 26 20 00	Low-Voltage AC Induction Motors Low-Voltage AC Induction Motors	Namepiate data		CH2M HILL - J. James	TSC-8430		<del>-                                     </del>
26 20 00	Low-Voltage AC Induction Motors	Rating Information	<del>†</del>	CH2M HILL - J. James	TSC-8430		
26 20 00	Low-Votage AC Induction Motors	Enclosure type	1	CH2M HILL - J. James	TSC-8430		
26 20 00	Low-Voltage AC Induction Motors	Dimensions		CH2M HILL - J. James	TSC-8430		
20 20 00	Low-Voltage AC Induction Motors	Conduit Box Dimensions		CH2M HILL - J. James	TSC-8430		
26 20 00		Space heater	<u> </u>	CH2M HILL - J. James	TSC-8430		
26 20 00 26 20 00	Low-Voltage AC Induction Motors			CH2M HILL - J. James	TSC-8430	•	
26 20 00 26 20 00 26 20 00	Low-Voltage AC Induction Motors	Motor Thermal Protection				<del></del>	
26 20 00 26 20 00 26 20 00 26 20 00	Low-Voltage AC Induction Motors  Low-Voltage AC Induction Motors	Motor Sound Power Level		CH2M HILL - J. James	TSC-8430		
26 20 00 26 20 00 26 20 00 26 20 00 26 20 00	Low-Voltage AC Induction Motors Low-Voltage AC Induction Motors Low-Voltage AC Induction Motors	Motor Sound Power Level Maximum Break Horsepower		CH2M HILL - J. James CH2M HILL - J. James	TSC-8430 TSC-8430		- 1 - 1
26 20 00 26 20 00 26 20 00 26 20 00	Low-Voltage AC Induction Motors  Low-Voltage AC Induction Motors	Motor Sound Power Level		CH2M HILL - J. James	TSC-8430		

Submittel Section	Clause or Section Title	Submittals Required	Due Date or Delivery Time	Program Reviewer	RECLAMATION Reviewer	Pueblo West Reviewer	Type *
26 20 00	Low-Voltage AC Induction Motors	Operation and Maintenance Data		CH2M HILL - J. James	TSC-8430		Ϊ
26 22 00	Low-Voltage Transformers	Descriptive Information		CH2M HILL - J. James	<del>                                       </del>		l A
26 22 00	Low-Voltage Transformers	Dimensions		CH2M HILL - J. James	1	<del>                                     </del>	<del>                                     </del>
26 22 00	Low-Voltage Transformers	Tranformer Nameplate Data		CH2M HILL - J. James			l A
26 22 00	Low-Voltage Transformers	Schematic and Connection		CH2M HILL - J. James			Â
26 22 00	Low-Voltage Transformers	Diagrams Sound Test Certification		CH2M HILL - J. James		<del></del>	1
26 22 00	Low-Voltage Transformers	Component and attachment		CH2M HILL - J. James			1
		testing seismic certificate of compliance					
25 24 15 26 24 16	Panelboards Panelboards	Manufacturer's data Manufacturer's Shop Drawings		CH2M HILL - J. James CH2M HILL - J. James			A
		1		CH2M HILL - 3. James			^
26 24 16 26 24 16	Panelboards Panelboards	Tabulation of features		CH2M HILL - J. James CH2M HILL - J. James			A
		Manufacturer's recommended installation instructions					'
26 24 16	Panelboards	Component and attachment testing seismic certificate of compliance		CH2M HILL - J. James			1
26 27 26	Wiring Devices	Manufacturer's product data		CH2M HILL - J. James	TT00 0400		A
26 42 02	Cathodic Protection Systems	Catalog Cuts and Product Information		CH2M HILL - T. Price	TSC-8180		^
26 42 02	Cathodic Protection Systems	Manufacturer's Certificates of Compliance		CH2M HILL - T. Price			
25 42 02	Cathodic Protection Systems	Field Test Reports		CH2M HILL - T. Price	TSC-8180 Little		A
26 42 02	Cathodic Protection Systems	Test Data		CH2M HILL - T. Price	TSC-8180 Little		A
31 10 00	Site Clearing	Clearing/Grubbing/Stripping Drawings		CH2M HILL - T. Matsuura			Α
31 23 16.13	Excavation	Excavation and Disposal Plan		CH2M HILL - T. Matsuura	EACO- D Hartman		
31 23 17	Vibration Monitoring	Qualifications		CH2M Hitt A. Finney			Ī
31 23 17	Vibration Monitoring	Vibration Monitoring Plan Pre-Excavation Structure		CH2M HILL - A. Finney CH2M HILL - A. Finney	<del> </del>	<del> </del>	<del>                                     </del>
31 23 17	Vibration Monitoring	Survey					<u> </u>
31 23 17	Vibration Monitoring	Summary Report Water Control Plan		CH2M HILL - A. Finney CH2M HILL - T. Matsuura			
31 23 19.01	Dewatering						
31 23 19.01	Dewatering	Dewatering Discharge Permit Well permits		CH2M HILL - T. Matsuura			<u>'</u>
	Dewalering			1			
	Trench Backfill	Shop Drawings Samples		CH2M HILL - A. Finney CH2M HILL - A. Finney	TSC-8140		A
	Trench Backfill	CLSM Mix Design		CHZM HILL - A. Finney	TSC-8140		A
	Trench Backfill	CLSM Test Cylinder Results		CH2M HILL - A. Finney	TSC-8140	<del>                                     </del>	Â
	Trench Backfill	Catalog and Manufacturer's		CH2M HILL - A. Finney			1
	Trench Backfill	Data Sheets Certified Gradation Analysis		CH2M HILL - A. Finney		+	<del>                                     </del>
31 23 23.15	Trench Backfill	Lab Credentials		CH2M HILL - A. Finney			
31 23 23.15	Trench Backfill	Source of Imported Material		CH2M HILL - A. Finney		ļ	
31 23 23,15	Trench Backfill	Material Testing Work Plan Materials Processing		CH2M HILL - A. Finney CH2M HILL - A. Finney		-	
31 23 23 15 31 23 23 15	Trench Backfill Trench Backfill	Operation Verification Testing Results		CH2M HILL - A. Finney	TSC-8140		<u> </u>
31 32 19.16	Geolextile	Shop Drawings	<del></del>	CH2M HILL - C. Hooper	130-0:40	<del> </del>	A
31 32 19.16	Geolextile	Samples		CH2M HILL - C. Hooper	<del> </del>	+	<del>                                     </del>
	Geolextile	Manufacturer's Certifications		CH2M HILL - C. Hooper			1
31 37 00	Riprap	Shop Drawings		CH2M HILL - C. Hooper			A
31 37 00 31 37 00	Riprap	Certified Test Results		CH2M HILL - C. Hooper	ļ		
31 37 00	Riprap Riprap	Trip Tickets Calcite Intrusion Free Certification		CH2M HILL - C. Hooper CH2M HILL - C. Hooper			+
31 41 00	Shoring	Excavation Support System Plan		CH2M HILL - A. Finney	EACO- D Hartman TSC-8140		
32 11 23	Aggregate Base Courses	Certified Test Results on Source Materials		CH2M HILL - T. Matsuura			
32 12 16	Asphalt Paving	Asphalt Concrete Mix Formula  Test Report for Asphalt		CH2M HILL - T. Matsuura CH2M HILL - T. Matsuura			<b> </b>
32 12 16	Asphalt Paving	Cement  Manufacturer's certificate of		CH2M HILL - T. Matsuura			<del>                                     </del>
32 12 16	Asphalt Paving	compliance Statement of qualifications for		CH2M HILL - T. Matsuura			'-
32 12 16	Asphalt Paving	independent testing laboratory					
32 12 16	Asphall Paving	Test Restuls		CH2M HILL - T. Matsuura			
32 12 16 32 31 13	Asphalt Paving  Chain Link and Orange Safety Fences and Gates	Pavement Markings Shop Drawings		CH2M HILL - T. Matsuura CH2M HILL - T. Matsuura			Å
32 31 13	Chain Link and Orange Safety Fences and Gates	Samples		CH2M HILL - T. Matsoura			A
32 31 13	Chain Link and Orange Safety Fences and Gates	Color Samples		CH2M HILL - T. Matsuura			A
32 31 13	Chain Link and Orange Safety Fences and Gates	Manufacturer's installation Instructions Supplier and installer		CH2M HILL - T. Matsuura CH2M HILL - T. Matsuura			
32 31 13	Chain Link and Orange Safety Fences and Gates	Qualifications Test Results		CH2M HILL - T. Matsuura			'
32 31 13	Chain Link and Orange Safety Fences and Gates	Samples: Representative of		CH2M HILL - T. Matsuura			'
32 91 13	Soil Preparation	stockpile Samples: Complete		CH2M HILL - T. Matsuura			
32 91 13	Soil Preparation	Agronomic Analysis Straw Mulch Certificates of		CH2M HILL - T. Matsuura			·
32 91 13	Soil Preparation	Inpsection		L		1	i

Submittel Section	Clause or Section Title	Submittals Required	Due Date or Delivery Time	Program Reviewer	RECLAMATION Reviewer	Pueblo West Reviewer	Type *
	Sail Properties	Straw Mulch Certificate of Reclamation approved mulch		CH2M HILL - T. Matsuura			
32 91 13	Soil Preparation	Strow Mulch Copes of	<del> </del>	CH2M HILL - T. Matsuura			1
32 91 13 32 91 13	Soil Preparation Soil Preparation	Delivery Invoices Straw Mulch Samples	<del> </del>	CH2M HILL - T. Matsuura			
	Soil Preparation	Erosion Control Blanket	t	CH2M HILL - T. Matsuura			
32 91 13	Soit Preparation	Certified Topsoil Analysis Report		CH2M HILL - T. Matsuura			'
32 92 00	Revegelation	Irrigation Plan		CH2M HILL - T. Matsuura			A
32 92 00	Revegetation	Revegetation bond Drainage and		CH2M HILL - T. Matsuura CH2M HILL - T. Matsuura	EACO-Thiel	<del>-</del>	A
		Erosion/Sedimentation Control		OT ESTATE TO SECURE			
32 92 00	Revegetation	Ptan Product Lables/Cut	ļ	CH2M HILL - T. Matsuura	<del>- </del>		- 1 7
32 92 00	Revegetation	Sheets/MSDS					
32 92 00	Revegetation	Seed Certification of Quality Seed Inoculant Certification		CH2M HILL - T. Matsuura CH2M HILL - T. Matsuura		<u> </u>	<del>-                                     </del>
	Revegetation Revegetation	Description of Maintenance		CH2M HiLL - T. Matsuura			
		Manufacturer's Installatin/Application	1	CH2M HILL - T. Metsuura			'
32 92 00	Revegetation	Instructions					
32 92 00	Revegetation	Seed Certifications Copies of Delivery Invoices	<del> </del>	CH2M HILL - T. Matsuura CH2M HILL - T. Matsuura			++
32 92 00	Revegetation	Weed Free Mulch Certification		CH2M HILL - T. Matsuura			1
32 92 00 32 92 00	Revegetation	Permits	<u> </u>	CH2M HILL - T. Matsuura			<del>-   -  </del>
32 82 00	Revegetation Welded Steel Pipe and Fittings - Weld Before	Shop Drawings	<del>                                     </del>	CH2M HILL - T. Matsuura	TSC-8140 / 8420		A
33 05 01.02	Backfill Welded Steet Pipe and Fittings - Weld Before	Material List and Steel	<del> </del>	CH2M HILL - T. Matsuura	TSC-8140		A
33 05 01.02	Backfill	Reinforcement Schedules					
	Welded Steel Pipe and Fittings - Weld Before	Fabrication Information		CH2M HILL - T. Matsuura	TSC-8140	1	^
33 05 01.02	Backfill Welded Steel Pipe and Fittings - Weld Before	Welding Data	<b> </b>	CH2M HILL - T. Matseura	TSC-8140		A
33 05 01.02	Backfill Welded Sieel Pipe and Fittings - Weld Before	Product data - Pipe Barrel		CH2M HILL - T. Matsuura	TSC-8140		<del> </del>
33 05 01.02	Backfill	Trouba vala - Fipe Danei					
	Welded Steel Pipe and Fittings - Weld Before	Product data - Coatings and	]	CH2M HILL - T. Matsuura	TSC-8140 / 8180		A
33 05 01.02	Backfill     Welded Steel Pipe and Fittings - Weld Before	Linings Product Data - Flanged Joints		CH2M HILL - T. Matsuura	TSC-8140 / 8420		A
33 05 01.02	Backfull Welded Steel Pipe and Fittings - Weld Before	Product Data - Wall Sleeves		CH2M HILL - T. Matsuura	T\$C-8140 / 8420		
33 05 01.02	Backfill	Product Data - Viail Steeves			1		
	Welded Steel Pipe and Fittings - Weld Sefore	Product Data - Couplings		CH2M HILL - T. Matsuura	TSC-8140 / 8420		<b>^</b>
33 05 01.02	Backfill Weided Steel Pipe and Fittings - Weld Before	Product Data - Expansion		CH2M HILL - T. Matsuura	TSC-8140 / 8420		A
33 05 01.02	Backfill	Joints	<u> </u>	CH2M HILL - T. Matsuura	TSC-8140		<del>-  </del>
33 05 01.02	Welded Steel Pipe and Fittings - Weld Before Backfill	Pipe Handling Equipment and Methods					
	Welded Steel Pipe and Fittings - Weld Before	Certificates		CH2M HILL - T. Matsuura	TSC-8140		
33 05 01 02	Backfill   Welded Steel Pipe and Fittings - Weld Before	MPS's QA/QC Plan	<del></del>	CH2M HILL - T. Matsuura	TSC-8140		1
33 05 01.02	Backfill	Statements of Qualification		CH2M HILL - T. Matsuura	TSC-8140		
33 05 01.02	Welded Steel Pipe and Fritings - Weld Before Backfill	Statements of Quantication					
	Welded Steel Pipe and Fittings - Weld Before	Procedures - Shop Welding		CH2M HILL - T. Matsuure	TSC-8140		'
33 05 01.02	Backfill Welded Steel Pipe and Fittings - Weld Sefore	Procedures - Field Welding	<del>                                     </del>	CH2M HILL - T. Matsuura	TSC-8140		<del>     </del>
33 05 01.02	Backfill	1		CH2M HILL - T. Matsuura	TSC-8140		-+
	Welded Steel Pipe and Fittings - Weld Before	Procedures - Sequencing/Special		CRZM FILE - 1. Macsoura	130-01-0		'
33 05 01.02	Backfill	Techniques	ļ	CH2M HILL - T. Matsuura	TSC-8140		<del>-                                     </del>
33 05 01.02	Welded Steel Pipe and Fittings - Weld Before Backfull	Design Calculations		CHZM HILL - 1. Maisuura	130-0140		
	Welded Steel Pipe and Fittings - Weld Before	Reports - Source Quality		CH2M HILL - T. Matsuura	TSC-8140		-   '
33 05 01.02	Backfill Welded Steel Pipe and Fittings - Weld Before	Control Field Quality Control	<del> </del>	CH2M HILL - T. Matsuura	TSC-8140		<del>                                      </del>
33 05 01.02	Backfill			CH2M HILL - T. Matsuura	TSC-8140 / 8180		
33 05 01.02	Welded Steel Pipe and Fittings - Weld Before Backfill	Cement mortar lining tests		<u> </u>			
	Welded Steel Pipe and Fittings - Weld Before	Field Testing Plan		CH2M HILL - T. Matsuura	TSC-8140		1
33 05 01.02	Backfill Welded Steel Pipe and Fittings - Weld Before	Record Drawings	† ·	CH2M HILL - T. Matsuura	TSC-8140		A
33 05 01.02	Backfill Welded Steel Pipe and Fittings - Weld Before	Fabrication Meeting Minutes	<del>                                     </del>	CH2M HILL - T. Matsuura	TSC-8140	<del> </del>	-
33 05 01.02	Backfill				1.55 5.55		
33 05 13	Manholes and Precast Vaults	Shop Drawings Manufacturer's Test Results	<u> </u>	CH2M HILL - C. Hooper CH2M HILL - C. Hooper			A
33 05 13 33 41 00	Manholes and Precast Vaults Reinforced Concrete Pipe	Shop Drawings		CH2M HILL - C. Hooper			A
33 41 00	Reinforced Concrete Pipe	Fittings and Specials		CH2M HILL - C. Hooper CH2M HILL - C. Hooper			A
33 41 00	Reinforced Concrete Pipe	Samples Certified Laboratory Test	1	CH2M HILL - C. Hooper			1
33 41 00	Reinforced Concrete Pipe	Certificates	<del> </del>	CH2M HILL - M. Rosser			
40 05 33	Pipe Heat Tracing	Manufacturer's Descriptive Literature		1			
40 05 33	Pipe Heat Tracing	Plastic Pipe Installations		CH2M HILL - M. Rosser CH2M HILL - M. Rosser			A
40 05 33	Pipe Heat Tracing	Pipe Heat Loss Calculations Shop Drawings - Shop	-	CH2M HILL - T. Matsuura			Â
40 27 00	Process Piping - General	Fabricated Piping		CU2M UP 1 T 44-4	<u> </u>		A
40 27 00	Process Piping - General	Shop Drawings - Product Dat	_	CH2M HILL - T. Matsuura			
70 27 00	I second I dud accuse at	Shop Drawings - Thrust		CH2M HILL - T. Matsuura			A
40 27 00	Process Piping - General	Restraint for Restrained Joint	S				
		Shop Drawings - Dissimilar	1	CH2M HILL - T. Matsuura			Α.
40 27 00	Process Piping - General	Buired Pipe Joints Shop Drawings - Pipe	<del></del>	CH2M HILL - T. Matsuura	<del>                                     </del>	<del></del>	A
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49.27 00 Process Paging - General Companies Co		Reviewer	Reviewer	CH2M HILL - T. Madermore	Delivery Time	Flance Coordination	Process Piping - General	Section 40 27 00
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49 27 00 Process Pipers - General Manufacturers Cell Gold Control (1997)   Process Pipers - General Manufacturers Cell Gold Control (1997)   Process Pipers - General Cell Cell Cell Cell Cell Cell Cell Ce	A	-			<u> </u>		Process Piping - General	40 27 00
49 27 00 Process Piper - General				<u> </u>		Manufacturer's Data	Process Piping - General	40 27 00
1.00   Process Prograg Content   C	,			CH2M HILL - T. Matsuura	L		Process Piping - General	40 27 00
40.27.00   Process Piping: General   Mail Tell Reports   CHORN HILL T. Valeurum   CHORN HILL T				CH2M HILL - T. Matsuura			Provoce Pining - General	40.27.00
40 27 00 Process Pyping - General Minductures Concention and Characteristics Concentration of Characteristics Institution of	-	-		CH2M HILL - T. Matsuura	-			
40 27 02 Process Pyting - General Material Standard Straner - Standard				CH2M HILL - T. Malsuura		Affidavit of compliance	Process Piping - General	40 27 00
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40 27 02 Process Paying - General Project Installation   Shop Dismigra - Process Valves and Operation   Control Winton Dismigration   Shop Dismigra - Process Valves and Operation   Control Winton Disgrams   Shop Dismigra - Process Valves and Operation   Control Winton Disgrams   Shop Dismigra - Process Valves and Operation   Control Winton Disgrams   Shop Dismigra - Process Valves and Operation   Shop Dismigra - Process Valves and Operation   Shop Dismigra - Process Valves and Operation   Control Winton Disgrams   Shop Dismigra - Process Valves and Operation   Control Winton Disgrams   Shop Dismigra - Process Valves and Operation   Control Winton Disgrams   Shop Dismigra - Process Valves and Operation   Control Winton Disgrams   Shop Dismigra - Process Valves and Operation   Control Winton Disgrams   Shop Dismigra - Process Valves and Operation   Control Winton Disgrams   Shop Dismigra - Process Valves and Operation   Control Winton Disgrams   Shop Dismigra - Process Valves and Operation   Operation   Shop Dismigra - Process Valves and Operation   Oper	<del>       </del>			CH2M HILL - T. Matsuura		Basket Strainer:		
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40 27 02 Process Valves and Operation Shop Driverings - Provided Data Control of Process Valves and Operation Shop Driverings - Standard Chart Standard Char	A			CH2M HILL - T. Matsuura		Shop Drawings - Product Data	90" Butterfly Valve	40 27 02
40 27 02   Process Valves and Operators   Shop Dimengs - Suing   CHAM HILL - T. Matisuums   ScACO Thisal	T A		EACO-Thiel /	CH2M HILL - T. Matsuura		Shop Drawings - Product Data		
40 27 02 Process Valves and Operators Shop Dimengs - Prese and Committee of Committ	- A			CH2M HILL - T. Matsuura				
40 27 02 Process Valves and Operations Control Wing Degrams October Wing	$\rightarrow$	ļ <u>.</u>		CH2M PRI T Materials			Process Valves and Operators	40 27 02
49 27 02 Process Valves and Operation Short Diversing Short Di	A		TSC-8420			Calculations	Process Valves and Operators	40 27 02
A027 02   Process Valves and Operators   Student Data   Student	Α	1	EACO-Thiel	CH2M HILL - T. Matsuura			Process Valves and Operators	40 27 02
40.27 02 Process Valves and Operation	⊢ A	1		CH2M HILL - T. Matsuura		Shop Drawings -		
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40 92 01 Instrumentation and Control for Process Systems: 40 90 01 Instrum	$\overline{}$	<b></b>	EACO Thic	CH2M HIII L. T. Marto				40 27 02
40 90 01 Instrumentation and Control for Process Systems: 40 90 01 Instrum		<u></u>				Proper Installation		40 27 02
Maintenance Information   CHZM HILL - T. Matsuura   EACC-Their	A		EACO-Thiel	CH2M HILL - T. Matsuura			Exposed Pipeline insulation	40 42 13
49 00 11 Instrumentation and Control for Process Systems Proposed Rems and Options CH2M HILL - D. Dutcher TSC-8440 (Septida and Abbreviation lists CH2M HILL - D. Dutcher TSC-8440 (Septida and Abbreviation lists CH2M HILL - D. Dutcher TSC-8440 (Septida and Abbreviation lists CH2M HILL - D. Dutcher TSC-8440 (Septida and Abbreviation lists CH2M HILL - D. Dutcher TSC-8440 (Septida and Abbreviation lists CH2M HILL - D. Dutcher TSC-8440 (Septida and Abbreviation lists CH2M HILL - D. Dutcher TSC-8440 (Septida and Abbreviation lists CH2M HILL - D. Dutcher TSC-8440 (Septida and Abbreviation and Control for Process Systems) (Catalog Cuts CH2M HILL - D. Dutcher TSC-8440 (Septida and Abbreviation Drawings CH2M HILL - D. Dutcher TSC-8440 (Septida and Abbreviation Drawings CH2M HILL - D. Dutcher TSC-8440 (Septida and Abbreviation Drawings CH2M HILL - D. Dutcher TSC-8440 (Septida and Abbreviation and Control for Process Systems) (Septida and Abbreviation Drawings CH2M HILL - D. Dutcher TSC-8440 (Septida and Abbreviation and Control for Process Systems) (Septida and Abbreviation Drawings CH2M HILL - D. Dutcher TSC-8440 (Septida and Abbreviation and Control for Process Systems) (Septida and Abbreviation and Control fo	+		EACO-Thiel			Maintenance Information		
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40 90 01 Instrumentation and Control for Process Systems:  Catalog Cuts  Change Cut							Instrumentation and Control for Process Systems:	40 90 01
40 90 01 Instrumentation and Control for Process Systems:  50 Flow Meter - Validation of University Institute Of University Instit	A		TSC-8440	CH2M HILL - D. Dutcher		CHII OT MATERIAIS	Instrumentation and Control for Process Systems:	40 90 01
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40 90 01 Instrumentation and Control for Process Systems:  40 90 01 Instrumentation and Control for							Instrumentation and Control for Process Systems:	40 90 01
40 90 01 Instrumentation and Control for Process Systems:  Loop Wring Diagrams  CH2M HILL - D. Dutcher  TSC-8440  CH2M HILL - D. Dutcher  TSC-	^	1				Ť		40 90 01
Loop Wring Diagrams  CH2M HILL - D. Dutcher  TSC-8440  Communication and Control for Process Systems. Networks Diagrams  CH2M HILL - D. Dutcher  TSC-8440  CH2M HILL - D. Dutche	A		TSC-8440	CH2M HILL - D. Dutcher		Panel Wiring Diagrams		40 90 01
Communication and Digital   Networks Diagrams   CH2M HILL - D. Dutcher   TSC-8440	A	<u>†</u>	TSC-8440	CH2M HiLL - D. Dulcher		Loop Wring Diagrams		
40 90 01   Instrumentation and Control for Process Systems:   Installation Details   Installation and Control for Process Systems:   List of Spares, expendables,   List of Spares, expendables,   List of Spares, expendables,   CH2M HILL - D. Dutcher   TSC-8440	A		TSC-8440	CH2M HILL - D. Dutcher	<u></u>	Communication and Digital	instrumentation and Control for Process Systems:	40 90 01
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Reclamation Training Plan   CH2M HILL - D. Dutcher   TSC-8440	A		TSC-8440	CH2M HILL • D. Dutcher				40 00 01
Instrumentation and Control for Process Systems: Operations and Maintenance Instrumentation and Control for Process Systems: Manuals   Prov. Meter - Validation of   Product Application   CH2M HILL - D. Dutcher   TSC-8440   Product Application   TSC-8440   Product Application   Produc		<del> </del>	TSC-8440	CH2M HILL - D. Dutcher				
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Protection, and Handling		1	<u> </u>					

Submittel Section	Clause or Section Title	Submittals Required	Due Date or Delivery Time	Program Reviewer	RECLAMATION Reviewer	Pueblo West Reviewer	Type *
44 42 58.04	Submersible Pumps	Factory and Field Performance Test Results		CH2M HILL - T. Matsuura			1
44 42 56.04	Submersible Pumps	Manufacturer's Installation Instructions		CH2M HILL - T. Matsuure			1
44 42 58 04	Submersible Pumps	O&M Data	T	CH2M HILL - T. Matsuura	.1	1	

#### APPENDIX F

Limited Notice to Proceed	Control March   Control Marc	Garney - Substantianl Com  Contractual - Substantial					The same of
	Committed a continuence of continu	Contractual - Substantiani Com			3/8 U1-Mar 25-Aug-14		Milestones
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A Continue of co	Present Submitter, Carriery   25 15444 154 17 0%   Present Submitter, Carriery   25 15444 154 154 17 0%   Present Submitter, Carriery   25 15444 154		Submit		15-May	Large Diameter Pipe Submittal - Garney	
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1	Small Ploe & Valve Schmitzlin - Carreny         25 Subagan         15 Abagan		Instrucmentation Submittal - Garney		15-May	Instrucmentation Submittal - Garney	
10   10   10   10   10   10   10   10	Ministration   Comment		Small Flow Meter Submittal - Gamey		15-May	Small Flow Meter Submittal - Garney	
	Machinative Colored Submitted Colored States   20 Cultum, 25-Jul-13   25 O M;   Machinative Colored States   20 Cultum, 25-Jul-13   25 O M;   Machinative Colored States   20 Cultum, 25-Jul-13   25 O M;   Machinative Colored States   20 Cultum, 25-Jul-13   25 O M;   Machinative Colored States   20 Cultum, 25-Jul-13   25 O M;   Machinative Colored States   20 Cultum, 25-Jul-13   25 O M;   Machinative Colored States   20 Cultum, 25-Jul-13   25 O M;   Machinative Colored States   20 Cultum, 25-Jul-13   25 O M;   Machinative Colored States   20 Cultum, 25-Jul-13   25 O M;   Machinative Colored States   20 Cultum, 25-Jul-13   25 Jul-13				15-May	Small Pipe & Valve Submittal - Garney	
	Michael Browning   Column		Material for RPSSI Tie-in - Garney		20-Jun	Material for RPSSI Tie-in - Garney	
Section   Comparison   Compar	Miscellarious Maria Schmittal - Carray		Miscellaneous Valves Submittal - Gamey		20-Jun	Miscellaneous Valves Submittal - Garney	
10   10   10   10   10   10   10   10	Hoteland   Calcardial - Carrey   25 20-Jun.   25-Jul - 13   4   0%		Sec		20-Jun	Electrical Submittal - Gamey	
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2	PAM Emergency Water Submital - Garney         2.5 20-Jun.		Health & Safety Plan Submittal - Garney		20-Jun	Health & Safety Plan Submittal - Gamey	
Comparing Comp	PAMOE		FVA Emergency Repair Plan Submittal - Garney		20-Jun	FVA Emergency Repair Plan Submittal - Gamey	
10   10   10   10   10   10   10   10	Aggregates Submittal - Canney   25 Schul-13 28-Augs13 86 0%	пеу	PWMD Emergency Water Supply Plan Submittal -		20-Jun	PWMD Emergency Water Supply Plan Submittal - Garney	
10   10   10   10   10   10   10   10	Reduction Submittal - Camery   25 36-Jul-13 29-Aug-13   10 0%				26-Jul-13	Aggregates Submittal - Garney	
Privation Control Co	Catholic Volumental - Campon   Catholic Volumental - Catholic Vo		Concrete		26-Jul-13	Concrete Submittal - Gamey	
10   10   10   10   10   10   10   10	CLSM Submittal - Carney   25 26-Jul-13 28-Aug-13 20		Rebar Submittal - Garney		26-Jul-13	Rebar Submittal - Gamey	
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10   10   10   10   10   10   10   10	Butterfy Valve Submittal - Engineer Review   15 05-Jun-13 12-358-pg-13   202   204				26-Jul-13	CLSM Submittel - Carney	
15 Charlett	Butterfly Valve Submittal - Engineer Review   15 05-Jun-13 22-Jun-13 0 0%		CLSM Submittel - Garney		20-3ui-13	1	Review
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Continue	NAC Procurement laterial for RPSSI Tie-in Procurement taterial for RPSSI Tie-in Procurement althodic Protection Procurement emitting Allowance tieneral Conditions lealth & Safety emporary Environmental Controls torm Water Sediment, & Erosion Control Maintenance ust Control event Control event Control	+	Electrical Procurement
10   10   10   10   10   10   10   10	laterial for RPSSI Tie-in Procurement sathodic Protection Procurement emitting Allowance seneral Conditions leath & Safety emporary Environmental Controls torm Water Sediment, & Erosion Control Maintenance ust Control event Control event Control event Control event Control event Control	16-Aug 22-Nov-13 4	Misce areous Metals Producting
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10   10   10   10   10   10   10   10	inthodic Protection Procurement ermitting Allowance iteneral Conditions leath & Safety emporary Environmental Controls torm Water Sediment, & Erosion Control Maintenance ust Control even Control eventy	23-Sep 14-Nov-13 1	Rebar Procurement
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Part	General Conditions Health & Safety Temporary Environmental Controls Storm Water Sediment, & Erosion Control Maintenance Dust Control Weed Contol Security	D	TI-Jun-14, Ceneral Activities
Control District   Control Dis	Health & Safety Temporary Environmental Controls Storm Water Sediment, & Erosion Control Maintenance Dust Control Weed Control Security	16-Aug 11-Jun-14 0	Permitting Allowance Change Conditions
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	Storm Water Sediment, & Erosion Control Maintenance  Dust Control  Weed Contol Security	16-Aug 11-Jun-14 0	Témporary Environmental Controls
19   19   19   19   19   19   19   19	Dust Control Weed Contol Security	16-Aug 11-Jun-14 0	diment, & Er
19   19   19   19   19   19   19   19	Weed Contol Security	16-Aug 11-Jun-14 0	
1971   1971	Security	16-Aug 11-Jun-14 0	lotro Dany
Comparison   Com		16-Aug 11-Jun-14 0	Security
19   19   19   19   19   19   19   19	raffic Control	16-Aug 11-Jun-14 0	Taffic Control
10   10   10   10   10   10   10   10	Trench Stability Survey	16-Aug 11-Jun-14 0	Trench Stability Survey
1   1   1   1   1   1   1   1   1   1	Dewatering	16-Aug 11-Jun-14 0	Déwatering
10   10   10   10   10   10   10   10	General Excavation	16-Aug 11-Jun-14 0	General Excavation
10   10   10   10   10   10   10   10	Rock Excavation	16-Aug 11-Jun-14 0	R Pock Excavation
Part	Cathodic Protection Systems	16-Aug 11-Jun-14 0	Cathodio Protection System's
Common	As-Built Surveying	16-Aug 11-Jun-14 0	A-Built Surveying
10   10   10   10   10   10   10   10	Foundation Stabilization Material	16-Aug 11-Jun-14 0	Fèundation Stabilization Material
Part	Additional Restoration of Paved Roads	16-Aug 11-Jun-14 0	Additional Restoration of Paved Roads
19   19   19   19   19   19   19   19	FVA Emergency Repair	16-Aug 11-Jun-14 0	FVA Emergency Repair
Committee   Comm	arer supply	16-Aug 11-Jun-14 0	
State   Stat		09-Sep-13	09-Sep-13, Erosion Control & F
10   10   10   10   10   10   10   10	Install Stabilized Construction Entrances, Sitt Fence, Rock Socks, & Concrete Washout	30-Aug 09-Sep-13 5	Install Stabilized Construction Entrances Silt Fence, Rock Socks, & Concrete Washo
10   10   10   10   10   10   10   10	Install Work Limit Fencing - Orange Safety Fence	30-Aug 09-Sep-13 5	Install Work Limit Fencing - Orange Safe
1   1   1   1   1   1   1   1   1   1	Install Work Limit Chamilink Pencing	30-Aug 09-Sep-13 5	Install Work Limit Chainlink Fe
1   1   1   1   1   1   1   1   1   1		US-Sep-13 5	Install Work Limit Preparation
17 The interior of the First Particular State   15 Cont.   15 Co		10-May-14	
1	24" Flow Releaving Vault Form/Tie Reher/Bour Stah	30-Sep 28-Mar-14 106	
1.   1.   1.   1.   1.   1.   1.   1.	24" Flow Balancing Vault Form/Tie Rebar/ Dair Male	30-Sep 03-Oct-13 40	24" Flow Balan
1.00   1.00	24" Flow Balancing Vault Form/Tie Rebar/Pour Lid	08-Oct-13 24-Oct-13 //	24 How Belanting Vadit Form Wells
1   1   1   1   1   1   1   1   1   1	24" Flow Balancino Vault Miscellaneous Metal Installation	14-Nov. 18-Nov.13	42 Frow Lind additional programmer Action Included Technology
15   15   15   15   15   15   15   15	Excavate/Form/Tie Rebar/Pour Cast-In-Place Supports - Qtv.(4)	15-Nov- 05-Dec-13	2.4 TWO desired in Table in Control in State in Control
1	Core-Drill New 12" RW WSP Lateral Suction Holes @ Pump Station Walls	19-Dec 23-Dec-13 1	Core-Drill New 13" RW WSD ateras
1	Install New Structural Steel Walkway, Stairs, Handrail, & Pipe Supports - Pump Station	05-Feb- 14-Feb-14 134	Now is the Vigor Leater and State Mollows Chaire House Spine Connected Discontinuous Spine Connected Disc
Free Belanding Water Prints Belanding Water British   Free B	Fill Old 36" Suction Header W/ Low Density Cellular Concrete	05-Feb- 07-Feb-14 1	Fill Old Set Surgice Header M// Due Dength Callular Contrates
The Per alabation Wash   The Readshipe Wash   The	36" Flow Balancing Vault Form∕Tie Rebar/Pour Slab	10-Feb- 13-Feb-14 0	3% Flow Balancing Vault Form/Tie Rehard Point St.
From Balancing Value from The Reservice to the Case of the Case	36" Flow Balancing Vault Form/Tie Rebar/Pour Walls	18-Feb- 05-Mar-14 27	20 Troop Sales Company Value Company Company
12 House	36" Flow Balancing Vault Form/Tie Rebar/Pour Lid	06-Mar 25-Mar-14 27	As You changing Value of the Changing Age Flowing 18
12-th day   12-th day   13-th day   13-t	36" Flow Balancing Vault Miscellaneous Metal Installation	26-Mar 28-Mar-14 106	36 Flow Balancing years (July March Installation
1	21	16-Aug 12-Feb-14	12-Feb-14, Pre-Pipe Installation
11 class proper proper of the Carteria Service Servi	Setup Temporary Bypass Pumping	16-Aug 20-Aug-13 16	Setup Temporary Bypass Pumping:
5 (10.5ep. 16.5ep.13   5 (10.5ep.13   5 (10.5ep.1	Test Bypass Pumping Prior to Starting Tie-In Work	21-Aug 22-Aug-13 16	Test Bypass Pumping Prior to Starting Tie-In
17-56p 15-56p.13	Rock Trench 24" RPSSI to 24" Flow Balancing Vault	10-Sep 16-Sep-13 5	" Flow Balancing Vault
25-56P 24-58p-73	Post Transf Paragraph Concrete Anchor - Determine if Old Anchor Interferes W/ New Sup	1/-Sep 19-Sep-13 41	Anchor - Determine if Old Anchor Interferes W/ New S.
10 25-58p. 10 25-78p.	Execusion 10 124 balancing Vault	1/-Sep 24-Sep-13 5	noing Vaul
10   23   24   24   24   24   24   24   24	Rock Tranch 24" to 36" DDSS 10 Abrus mind Monday	25-5ep 27-5ep-13 40	4/39/02 - 24, Flow Balancing
2 OF-Feb. 12-Feb-14 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Rock Tranch for 36" Belancing Vault	25-5ep 00-Oct-13	24 to 30 Krash to Aboveground Heade
Control of Balancing Value   Control of Cont	Expanse to Subgrade El 4743.3. 36" Elva Balonica Vanit	03-Feb 03-Feb-14 0	rench for 36" Balancing Vault
9 04-0-e1-0-1 24-PEO-14	Rock Treach 36" Behavior / Joint to 26" V 26" 25" 75"	00-Feb 0/-Feb-14 0	are to Subgrade Et. 4742.13 - 36" Flow Balace
96 04-Oct-13 20-Feb-14 Pipe Laying 24 Chock-13 20-Feb-14 Pipe Laying 25 Chock-13 20-Feb-14 Pipe Laying 26 Chock-13 20-Feb-14 Pipe Laying 26 Chock-13 20-Cot-13 20-Cot-	ock Irench 30 barancing Vault to 36" X 36" I ee	06-Feb 12-Feb-14 3	36" Balancing Vault to 36" X 36" 36" T
Table   128-Oct-13   128-Oct-		04-Oct-13 20-Feb-14 0	20-Feb-14
Install 30° Wave Volume   128-oct-13   20° Cs.	Install 24 RPSSI RW DIP STA 0410 to 0+54.30 Through 24" Flow Balancing Vault	04-Oct-13 08-Oct-13 40	Install 24" RPSSI RW DIP SITA 0+00 to 0+54:30 Through 24" Flow Balan
Install 36° RW WSP 8 Turbidity Net Sol Flow Page 2.8 Structure to 104-191   106-Dec-13   1 0%     Install 36° RW WSP 8 Turbidity Net Sol Flow Page 2.8 Structure to 104-191   106-Dec-13   1 0%     Install 36° RW WSP 8 Turbidity Net Sol Flow Page 2.8 Structure to 104-191   106-Dec-13   1 0%     Install 36° RW WSP 8 Turbidity Net Sol Flow Page 2.8 Structure to 104-191   1 0%     Install 36° RW WSP 8 Turbidity Net Sol Flow Page 2.8 Structure to 104-17 to 103-404     Install 36° RW WSP 8 Turbidity Net Sol Flow Page 2.8 Structure to 104-17 to 103-404     Install 36° RW WSP 8 Turbidity Net Sol Flow Page 2.8 Structure to 104-17 to 103-404     Install 36° RW WSP 8 Turbidity Net Sol Flow Page 2.8 Structure to 104-17 to 103-404     Install 36° RW WSP 8 Turbidity Net Sol Flow Page 2.8 Structure to 104-17 to 103-404     Install 36° RW WSP 8 Turbidity Net Sol Flow Page 2.8 Structure to 104-17 to 103-404     Install 36° RW WSP 8 Turbidity Net Sol Flow Page 2.8 Structure to 104-17 to 103-404     Install 36° RW WSP 8 Turbidity Net Sol Flow Page 2.8 Structure to 104-17 to 103-404     Install 36° RW WSP 8 Turbidity Net Sol Flow Page 2.0f 4     Install 36° RW WSP 8 Turbidity Net Sol Flow Page 2.0f 4     Install 36° RW WSP 8 Turbidity Net Sol Flow Page 2.0f 4     Install 36° RW WSP 8 Turbidity Net Sol Flow Page 2.0f 4     Install 36° RW WSP 8 Turbidity Net Sol Flow Page 2.0f 4     Install 36° RW WSP 8 Turbidity Net Sol Flow Page 2.0f 4     Install 36° RW WSP 8 Turbidity Net Sol Flow Page 2.0f 4     Install 36° RW WSP 8 Turbidity Net Page 2.0f 4     Install 36° RW WSP 8 Turbidity Net Page 2.0f 4     Install 36° RW WSP 8 Turbidity Net Page 2.0f 4     Install 36° RW WSP 8 Turbidity Net Page 2.0f 4     Install 36° RW WSP 8 Turbidity Net Page 2.0f 4     Install 36° RW WSP 8 Turbidity Net Page 2.0f 4     Install 36° RW WSP 8 Turbidity Net Page 2.0f 4     Install 36° RW WSP 8 Turbidity Net Page 2.0f 4     Install 36° RW WSP 8 Turbidity Net Page 2.0f 4     Install 36° RW WSP 8 Turbidity Net Page 2.0f 4     Install 36° RW WSP 8 Turbidity	Inefall Dranoged 36" Value (Cata or British) on 36" Claric Balance	28-Oct-13 27	36/X35/X35   Ge (@ 51A.101./4.46
Install 36° RW WSP & Turbidity Meter Cuttoring Water Structure to 102-17   106-06-13   1 0%	Install 36" RW WSP & Blowoff Valve & Structure to 101-104 04 24	3 20-Oct-13 27	Install Poposed at Valve (sale or butterny) on 36. Flow balancing Vault Side of I ee @ SI A 101+
Install 36" RW WSP Pipe STA 102+17 to 103404 Install Merior 12" Suction Lateral Flange x Plane End to Exterior & Butt Weld 5 24-Dec 14-Dec.13 1 0% Install Interior 12" Suction Lateral Flange x Plane End to Exterior & Butt Weld 5 24-Dec 14-Dec.13 1 0% Demo Existing Interior Pipe/Install New Pipe to Suction Side of Pumps 1 - 3 2 15-Jan-14 1 0% Flace Pumps 1, 2, & 3 into Service 5 17-Jan-14 23-Jan-14 1 0% Actual Work Feature Manager 2 14-Dec.13 1 0% Flace Pumps 1, 2, & 3 into Service 5 17-Jan-14 23-Jan-14 1 0% Southern Delivery System - PDC1B, PWC, RPSSI - Baseline		06-Dec-13	1
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Critical Remaining Work Summary Southern Delivery System - PDC1B, PWC, RPSSI - Baseline Page 2 of 4	Place Pumps 1, 2, & 3 Into Service	17-Jan-14 23-Jan-14	Boe Pumps 1
	Many Designation Designation	- PDC1R	Pane 2 of 4
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Kemaning Vork   Wilestone	•		

Action   Dermo Existing Ministric Ministric State of Pumps 4 & 5   3 2 4-Lant 1 0 February 1 0	Case of Overfunction of the RVV International Control of Section Selection S
8.5 5 10 Service  8. 5 10 Service  8. 5 10 Service  8. 5 10 Service  8. 6 10 Service  9. 6 29-Jan-14 05-Feb-14 0.0  9. 6 14-Feb-1 0.0  9. 13-Feb-1 0.0  9. 10 14-Nov 20-Nov-13 105  9. 14-	Cear of Overburdon or 90° RVU line Roctamation Vault Form Fedamation Vault Fedamation Vaul
© POB STA 100+28.43 Through 36" Flow Balancing Vault         2 14-Feb 17-Feb.14         0           VSP Pipe STA 100+28.43 Through 36" Flow Balancing Vault         100 14-Nov 20-Nov-13         105           Org Vault - Small Bore Mechanical Piping         5 21-Nov 27-Nov-13         115           Ing Vault - Interior Paint Coating         5 22-Nov 27-Nov-13         115           Ing Vault - Interior Paint Coating         9 02-Jan-14         40           Ing Vault - Interior Paint Coating         9 02-Jan-14         14-Jan-14           - RPSSI         10 07-Mar 27-Nov-13         115           Ing Vault - Interior Paint Coating         9 02-Jan-14         14-Jan-14           - RPSSI         10 07-Mar 20-Mar-14         10 07-Mar 20-Mar-14         115           In Installation 24" Balancing Vault         10 07-Mar 20-Mar-14         16           Into Installation 36" Balancing Vault         10 07-Mar 20-Mar-14         16           Int Form/Tile Rebar/Pour Valls - Section 2         10 02-Mar 11-Mar-14         16           Int Form/Tile Rebar/Pour Valls - Section 2         10 02-Mar 12-Mar-14         16           Int Form/Tile Rebar/Pour Valls - Section 2         10 02-Jan-14         16           Int Forest Lid Installation         10 02-Jan-14         16           Int Forest Lid Installation <t< td=""><td>24 FL w Palancing Vault - Smill Bore Meefaning Vault - Smill Bore Meefaning Vault - Install Bore Meefaning Vault - Install Bore Meefaning Vault - Install Bore Weefaning Valve @ STA 18 10-0d to Reclamatic</td></t<>	24 FL w Palancing Vault - Smill Bore Meefaning Vault - Smill Bore Meefaning Vault - Install Bore Meefaning Vault - Install Bore Meefaning Vault - Install Bore Weefaning Valve @ STA 18 10-0d to Reclamatic
10   14   Nov.   20   10   14   15   15   15   15   15   15   15	Cear of Overburdon on 90" RW Line Rock Trenching for 90" RW Line Rock Trenching for 90" to Reclamation Value Rock Trenching for 90" RW Pipe @ STA 18 100-00 to Reclamation Value Rock Trenching for 90" RW Pipe Rock Trenching for 90"
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Baseline CPM Schedule Page 4 of 4 Southern Delivery System - PDC1B, PWC, RPSSI - Baseline Summary Summary Critical Remaining Work Actual Work
Remaining Work

#### APPENDIX G

### **Orientation Training Key Topics**



### PROJECT DESCRIPTION

PROJECT NAME - SOUTHERN DELIVERY SYSTEM PDC1B, PWC & RPSSI

**OWNER - COLORADO SPRINGS UTILITIES** 

PROJECT LOCATION – Site is just East of the Pueblo Damn at the Pueblo Reservoir on the West side of Juniper Road

640 Pueblo Reservoir Rd Pueblo, CO 81005

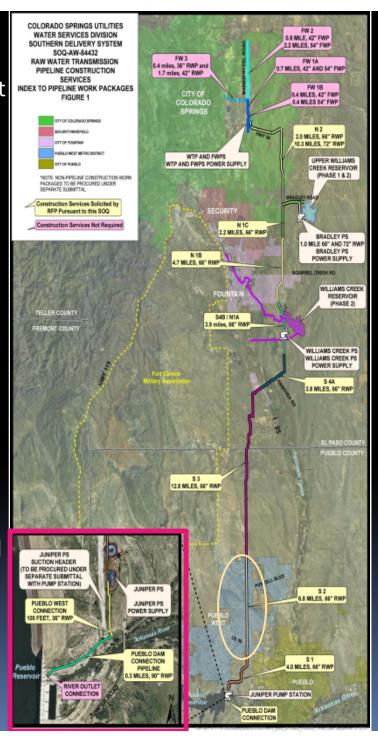


### Southern Delivery System

(SDS) is a regional project that will bring water from the Arkansas River to Colorado Springs, Fountain, Security and Pueblo West. The project will transport water from Pueblo Reservoir through a 62-mile underground pipeline.

Phase I of the project is projected to cost \$880 million

Components of Phase I include the connection to Pueblo Dam, three pump stations, the pipeline, and a water treatment plant. Construction began in 2010 with water delivery scheduled to begin in 2016.



#### **Project Scope**

The Project consists of installing approximately 1,596 feet of 90" diameter welded steel pipe. Connection to Pueblo West water service. Pueblo West Pump Station Improvements.

#### **General Activities**

- •24" River Blowoff
- Reclamation Meter Vault with 90" Butterfly Valve and Flow Meter
- Hydropower Turnout
- •PW Connection Line
- Pump Station Manifold and Connection
- •Asphalt pavement replacement
- Traffic control
- Erosion and sediment control

### PROJECT TEAM

Project Manager - Bill Williams

Project Superintendent - Gil Duran

Project Superintendent – Blake Rabel

Project Superintendent – Bob Grivy

Project Superintendent – Jeff Riddle

Project Administrator - Ryan Schulte

Project Administrator – John Miller

Regional Safety Manager - Neal Timmons

Quality / BMP Field Administrator – Alice Duran





### **SAFETY THE GARNEY WAY**

In all of it's operations, Garney is guided by an established accidentprevention policy.

This policy is based on a sincere desire to eliminate occupational injuries and illnesses, damage to equipment and property, as well to protect the general public.

Garney Construction considers no phase of operation or administration of greater importance than accident prevention. Accidents which result in personal injury and/or damage to property and equipment represent needless waste and loss.

Safety for our employees will always be a prime concern and the belief that a strong safety process will provide a safe and healthy environment for all employees to work.



#### **General Rules of Conduct**

The following general rules of conduct apply to all contractors and their employees while engaged in work for or on behalf of this project.

- a. Never perform work over the heads of people or leave tools or equipment overhead.
- b. Never jump from any elevated surface.
- c. Isolate and identify hazardous work areas with safety markers, tape barriers, blinking lights, safety cones, or other means.
- d. Alcoholic beverages, illegal substances or persons under the influence of such products are not permitted on the project site.
- e. Firearms, explosives and ammunition are strictly prohibited unless approved as part of the work activities.
- f. Employees must wear appropriate attire at all times while onsite.
- g. All posted instructional signs such as WARNING, CAUTION, RESTRICTED AREA, etc. must be followed.
- h. Best management practices should be utilized to ensure safe and environmentally sound performance of all tasks.



#### **General Rules of Conduct**

- I Appropriate signage must be used to adequately redirect traffic in the event of road or property access closures.
- j. Building exits and emergency equipment must be kept accessible at all times.
- k. Outdoor painting, grinding or similar activities should be done away from building air handling equipment or air intake vents.
- 1. Indoor painting, grinding or similar activities must be done in a manner that does not become a hazard to employees or the public. Use of general or point of operation ventilation shall be used as necessary.
- m. All employees must have received appropriate safety training for their job tasks and for all chemicals and equipment to be used.
- n. Property, equipment, and materials left at job sites is done at the contractors risk and shall be stored in a manner that will not expose employees or the public to a hazard.
- o. All contractors must cooperate during any inspection of the work area by any authorized entity.
- p. Smoking is permitted only in designated areas that will prohibit the ignition of fire from surrounding material.



### JOB SITE ACCESS

- All Personnel accessing the site must sign the CONTRACTOR SITE SAFETY PLAN SIGN OFF FORM indicating that they understand and will abide by the conditions of access. Upon Execution of this document each individual will receive a hard hat sticker with the S4A job logo.
- All Personnel accessing the site, unless currently working on the site each day, will be required to contact a Garney Supervisor and sign in and out at the entrance to the site. Phone lists and sign in sheets will be located at the entrances.

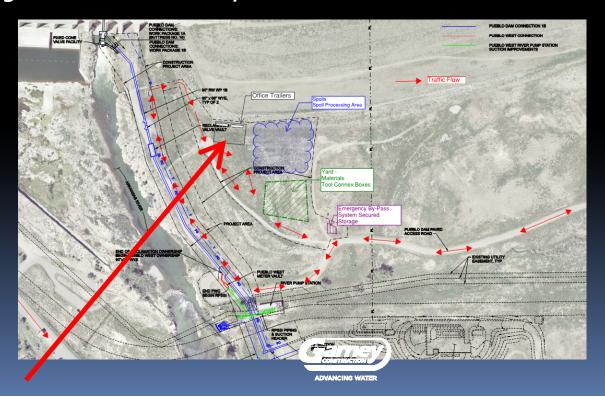


# Parking

Parking Area Locations – Employees will be designated to park at the locations shown below. Subcontractors, engineers, owners & any other construction vehicle will also be required to park in the designated areas.

Vehicles that need to access specific areas of project along the right of way, to perform work, will be allowed to park along the right of way until their task is complete.

The Parking Area is within the Lay Down Yard and Office Trailer location.



### Suitable Work Attire

All employees who work in the field must wear, as minimum protection

- ✓ Pants long enough to protect from environmental and physical hazards.
- ✓ Sleeved shirts with a minimum 4-inch sleeve.
- ✓Sturdy work boots

Shorts, baggy pants, tank tops, modified shirts, athletic or street shoes are acceptable.



### Personal Protective Equipment

**Minimum Personal Protective Equipment (PPE)** 

All employees, subcontractors, vendors, visitors and affiliates associated with this project are required to wear the following minimum PPE.

- **✓** Hard Hats
- ✓ Safety Glasses
- ✓ Sturdy Work Boots / Safety Toed Boots as appropriate
- ✓ Hi-Viz Garments (vests, shirts or similar as required based on tasks)









### Personal Protective Equipment

#### Additional Required PPE

Depending on the task you are performing and/or the area you are working, additional PPE may be required. Listed below are specific tasks that may require additional PPE.

- ➤ Electric Welding
- ➤ Gas-Torch Cutting & Welding
- ➤ Welder Helper or Inspector
- ➤ Laser Protection
- ➤ Confined Space Entrant

- Abrasive grinding or cutting
- Working at Heights over 6 feet.
- ► Handling Hazardous Chemicals
- Abrasive Blasting
- Working in noisy areas

IF YOU MUST PERFORM ANY OF THESE TASKS, CHECK WITH YOUR SUPERVISOR PRIOR TO STARTING THE TASK(S)

**Heavy Construction Equipment Operations** 

- ➤ All Equipment Operators must be Qualified.
- > Equipment must be inspected prior to use.
- > Safety Devices must be operational.
- ➤ Authorized Personnel only shall be in close proximity of operating equipment.



- > Personnel must make eye contact with operator(s) prior to entering work zone.
- ➤ Operators must obey emergency stop command from any employee.

Operators Shall Not Perform Any Function Deemed Unsafe.



**Haul Road Access** 

- All Drivers Accessing Haul Road Must Comply With Haul Road Procedures.
- ➤Non Compliance could result in removal from the site.
- >Roads not identified on Haul Route Plan Are Not To Be Utilized.
- Stopping or Parking on the Haul Road Will be Limited.
- >Access to Haul Road Must be Approved.
- > Parking and Staging In Designated Areas Only.
- > Vehicles Must Yield to Construction Equipment at All Times

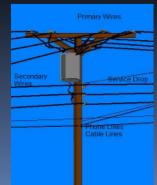


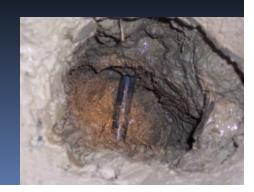
#### **Underground and Overhead Utilities**

- >All existing utilities must be located and marked prior to operations.
- Excavations will be hand-dug within 18" either side of utility, or pothole for proper width and depth before proceeding with any mechanized tools.
- ➤ If locate marks are found to be inaccurate, UNCC will be notified.
- ▶If a utility damage occurs, the affected facility owner and UNCC will be notified.
- ➤If contact is made with a utility, work shall cease until it is deemed safe to proceed.

Equipment spotters must be used when working under overhead electrical.







### Close Working Proximity to the Arkansas River

Much of the work area is adjacent to the Arkansas River.

Be mindful of the steep slope toward and into the River.

Watch all equipment near this slope.

All personnel must remain inside the work limit fencing.

RCP outfall work will be done during low flow period of the river. When this work is being performed direction on river safety must be addressed in all daily JHA meetings. During this work, personal floatation devices will be provided around the work area.

Only Authorized Personnel and

Contractors will be allowed to do any digging in this area.



### **Trench Safety**

All OSHA and Garney Trench Safety Standards must be address and followed in the daily JHA meetings if a trench will be included in your work for the day.

All personnel working in or around trenches must follow the JHA procedures for the day identifying hazards of a trench. The JHA must be signed by all employees.

The areas that must be trenched will be monitored by Supervisors for any unwanted movement of trench walls or surrounding areas.

Only Authorized Personnel and Contractors will be allowed to do any digging on this project.



#### **Confined Spaces**

- ▶ Potential confined spaces must be evaluated and level determined prior to entry.
- All personnel associated with confined space(s) must receive training.
- A confined space rescue plan must be in place prior to confined space entry.
- ➤ Pre-entry testing will be performed before entry is authorized. If conditions are acceptable, monitoring will be continuous in the working areas.
- ➤ The Permit shall be completed and all conditions of the permit shall be met prior to entry.
- ➤Off site emergency services for confined space rescue (911).



#### Fire & Explosion

>Workplace fire hazards and or ignition sources for this site may include but are not limited to:

Welding Operations
Fuel Storage
Heat shrink sleeve application

- All Garney owned pickups and construction equipment will be equipped with the 8# ABC fire extinguishers.
- >Wild Land Fires will be mitigated by the following procedures.
- 1. Water truck on site during all work activities involving ignition sources
- 2. No hot work operations will be allowed when water truck is not on site unless hot work is in a designated hot work area.
- ➤ Smoking is permitted only in designated areas.
- ➤ Do not leave fires and open flame devices, such as incinerators, torches, and controlled fires unattended.



#### **Material Storage**

➤ Housekeeping - Keep work and storage areas clean and orderly and in a sanitary condition. Keep stairways, access ways, and exits free from scrap, supplies, materials, or equipment.

#### **≻**Material Storage

Materials will be placed in a planned and orderly manner that does not endanger employee safety. Ensure stacks, tiers, and piles are stable and stacked to aid safe handling and loading. Do not interfere with access ways, doorways, electrical panels, fire extinguishers, or hoist ways.

Stack materials securely. Stacks or piles must be no more than 16 feet high. Store combustible material at least 10 feet away from a building or structure.

Do not store materials under power lines or where materials may block egress or emergency equipment.

Flammable chemicals require special storage requirements. Review product MSDS prior to storing any flammable item.

#### **Material Handling**

- ➤ All riggers shall be Certified. All signal personnel shall be Qualified.
- ➤ Personnel shall not be permitted under lifted loads
- ➤ Rigging shall be inspected and deemed safe prior to use.
- ► Chain slings shall not be used to lift overhead loads.
- A spotter shall be used when operator has blind spots.
- ➤ Tag lines shall be used on all lifted loads.
- ➤ All loads lifted and/or transported shall be stable and secure.
- **▶**Forklift operators must be certified.







#### **Snakes & Insects**

- ➤ Be aware and alert for snakes and insects.
- ► Avoid or dispose if you must work in the same area
- ►If bitten
- 1. Contact your supervisor and seek medical attention.
- 2. Remain calm so as not to increase circulation and thus the spread of the venom.
- 3. Immediately remove anything from the body that may cause increased swelling below the bite area (i.e., rings, watch, shoes, tight clothing, etc.)
- 4. If possible, wash the wound with soap and water. If available, a Sawyer Extractor pump may be used to remove some of the venom. Be familiar with the procedure and instructions before you need to use it.
- 5. Immobilize the bite area, keeping it in a neutral to below the heart position.







#### **Cold Stress**

Workers should avoid exposure to extremely cold temperatures when possible. When cold environments or temperatures can not be avoided, workers should follow these recommendations to protect themselves from cold stress:

>Wear appropriate clothing.

Wear several layers of loose clothing. Layering provides better insulation.

Tight clothing reduces blood circulation. Warm blood needs to be circulated to the extremities.

When choosing clothing, be aware that some clothing may restrict movement resulting in a hazardous situation.

Make sure to protect the ears, face, hands and feet in extremely cold weather.

Book should be waterproof and insulated.

Wear a hat; it will keep your whole body warmer.

Move into warm locations during work breaks; limit the amount of time outside on extremely cold days.

clothes and a thermos of hot liquid.

Avoid touching cold metal surfaces with bare skin.

Monitor your physical condition and that of your coworkers.



#### **Heat Stress**

Workers should avoid exposure to extreme heat, sun exposure, and high humidity when possible. When these exposures cannot be avoided, workers should take the following steps to prevent heat stress:

- ➤ Wear light-colored, loose-fitting, breathable clothing such as cotton. Avoid non-breathing synthetic clothing.
- ➤ Gradually build up to heavy work.
- Schedule heavy work during the coolest parts of day.
- Take more breaks in extreme heat and humidity.

  Take breaks in the shade or a cool area when possible.
- Drink water frequently. Drink enough water that you never become thirsty.
- Avoid drinks with caffeine, alcohol, and large amounts of sugar.
- ➤ Be aware that protective clothing or personal protective equipment may increase the risk of heat stress.
- ➤ Monitor your physical condition and that of your coworkers.



#### Severe Weather

All employees should be aware that this project site is subject to severe weather. This can include thunderstorms, lightning, tornados and snow storms.

- ➤ All employees should maintain an awareness of the current weather conditions and dress appropriately.
- In the event of severe weather the crew supervisor or competent person shall determine the severity and proximately of the storm.

  The supervisor shall advise all employees to shut off the machine, lower all booms and take shelter in the event of a storm.
- Supervisors will communicate to employees of modified work schedules due to severe weather project shutdown or delays.



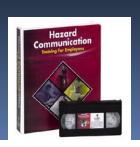
#### **Hazard Communication**

- All employees will receive training on the company's Hazard Communication Program.
- ➤ Any employee using a chemical will be required to read and understand the MSDS for that chemical prior to use.

#### Material Safety Data Sheets (MSDS)

- ➤ All materials, chemicals, and liquids used in process or conjunction with the construction of this project will be logged on a Job Master MSDS List. This list along with a copy of the specific MSDS sheets will be maintained in the site office by the project administrator. In addition, this information will be available to all employees by means of duplicate copy of the logs and all MSDS sheets located in each supervisors vehicle.
- ➤ All containers must be properly labeled and an MSDS kept on site.









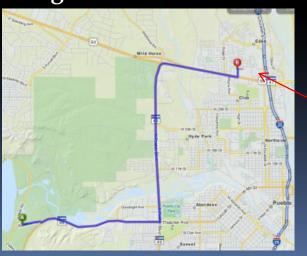






## On The Job Injuries

- ➤ All injuries or illnesses regardless of severity must be reported to supervisor immediately.
- First Aid Kits are located in all Garney Construction Vehicles.
- $\triangleright$  In the event of a life threatening injury or illness dial 911.
- ➤ Emergency Heavy Rescue (confined space and trench) 719 385-7017
- ➤ Injuries or illnesses requiring medical attention will be treated at Garney's designated clinic.



Dr. Olsen's Office 4112 Outlook BLVD Suite 37 Pueblo, CO (719) 562-6300



# Emergency Response

- Assembly Point will be the Project Superintendent's Pickup. All employee's and subcontractors shall report to this site for accountability and further instructions.
- ➤ The following are First Aid Responders: Gilbert Duran, Jeff Riddle, Alice Duran, Gene Lopez, Roman Cortez.
- >EMERGENCY CONTACT INFORMATION

EMS 911 POLICE 911 FIRE 911

- **COLORADO SPRINGS EMERGENCY HEAVY RESCUE 719-385-7017**
- The Evacuation Signal will be THREE LONG BLASTS of an equipment horn. If you hear this sequence of sounds assume the danger is real and immediately evacuate the work area and report to the Assembly Point.





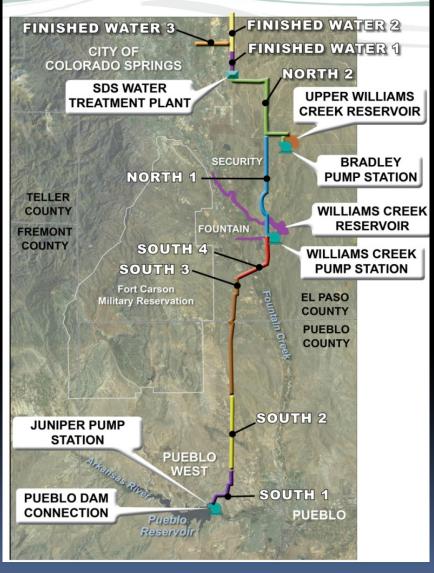








## SDS WORK PACKAGES





# Jurisdictional Agencies

There are multiple jurisdiction agencies which govern this project. If you are approach by representative of one of these agencies please direct them to a Garney supervisor.

Potential Agencies are Federal Agencies

- > BOR
- > USACE
- > USFWS
- > OSHA









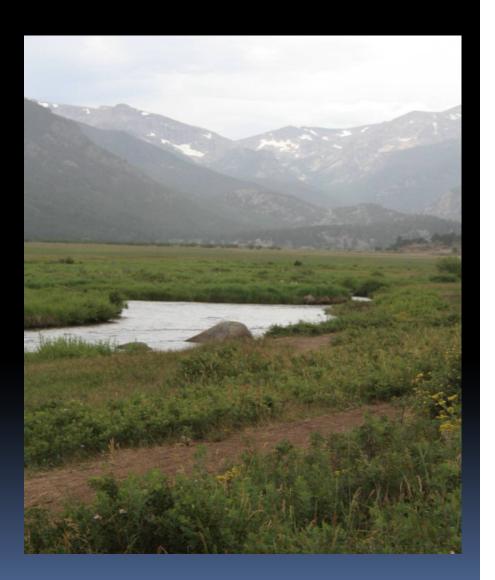
# Jurisdictional Agencies

## **State Agencies**

- > CDPHE
- > CDOT
- > State Engineers Office
- > CDOW
- > SHPO

## **Local Agencies**

- **El Paso County**
- > Colorado Springs
- Pikes Peak Regional Building Department





# Natural Resource Considerations



- > Animals
- > Cultural Resources
- Noxious Weeds







# **Animals**

**Prairie Dogs** 



It is our intent to minimize disruption to animals located on the site.

Notify a supervisor if a animal nest or burrow is found.



Raptors





# **Cultural Resources**

If found all work must stop and notify a Garney Supervisor.







# **Noxious Weeds**



**Scotch Thistle** 

It is our intent to stop
the spread of these
potential noxious
weeds.
Please contact a
Garney supervisor for

Garney supervisor for specific requirements should these be found.



**Canadian Thistle** 



## **Construction Considerations**

## Pueblo Reservoir

Be mindful of recreational traffic and activities for the reservoir and surrounding areas.

## Neighborhoods

Be cognizant and mindful of our neighbors who live near the project. Respect there homes

### **Dust & Noise**

Maintain noise and dust to a minimum.





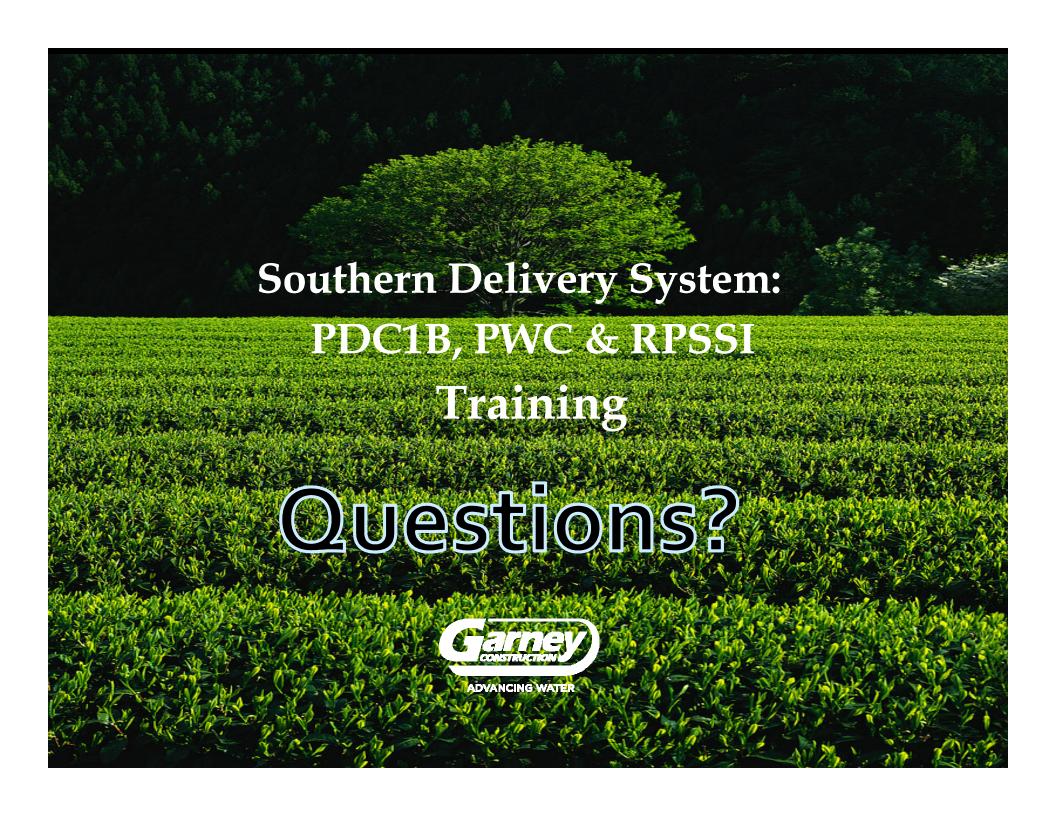
# SDS Public/Media Communication Protocol:

- All communication with media and the public will be coordinated by the SDS communication staff.
- If approached by the public or media, limit your interaction and direct them to the hotline:



855-SDS-4YOU (855-737-4968)





			X	

Appendix H is the CONTRACTOR's submittal 01 35 29-001. The approved submittal is included on the CD.

APPENDIX H

**CONTRACTOR's Safety Plan** 

# Colorado Springs Utilities Special Security Instruction

Pueblo Dam Connection Construction site

SECURITY FACILITY ORDERS						
FACILITY	FACILITY   Pueblo Dam Connection Construction Site   04/24/2013					
SUBJECT	Title Page/Facility Authorization	PAGE	2			

This Special Security Instruction (SSI) describes the basic protection approaches used by Colorado Springs Utilities (CSU), on behalf of this location. The SSI delineates security duties, responsibilities, and procedures of and for the location. The SSI derives from:

- CSU and Bureau of Reclamations (BoR) policies, procedures, written correspondence, and the CSU Security Administration's verbal instructions
- 2. Best security practices developed by CSU.

This SSI is in paragraph format and outlines various security responsibilities as they pertain to this location.

The paragraphs are organized into fifteen topics:

Alarms and CCTV	General Information	Patrol Activity
Communications	Vehicle Search Procedures	Reports
Departmental Support	Legal Considerations	Scheduled Duties
Emergency Procedures	Motorist Assists and Parking Control	Security Keys and Equipment Accountability
Facility Doors/Gates	Hazardous Chemicals	Security Staffing

The CSU Security Administrator (SA) determines the level and extent of this protection program and the services G4S will provide. The locations layout, physical location, and area criminal activity dictate the security programs planned approach.

SSIs change periodically address changing security concerns at the location. The CSU SA approves and will coordinate with G4S management all security procedure changes and will update this SSI. When this SSI changes, the previous SSI is discarded and a new SSI is assigned to the post. SSI revisions are tracked in the "Updated" area below. The CSU SA formally reviews and approves all SSIs at least annually. The signatures and dates below reflect the latest SSI approval date and update(s) by the SA.

Security .	Administrato	r	Approved	Ė		
Updated						
	<del></del>				<del></del>	 

Rev 1

SECURITY FACILITY ORDERS					
FACILITY	Pueblo Dam Connection Construction Site	04/24/2	2013_		
SUBJECT	Alarms and CCTV	PAGE	3		

Electronic security measures are intended to be a component of the overall security program.

#### **SECURITY ALARMS**

There are no duress alarm systems monitored by SOs at this location.

#### **CCTV** (Closed Circuit Television)

There are no CCTV systems monitored by SOs at this location.

SECURITY FACILITY ORDERS						
FACILITY	Pueblo Dam Connection Construction Site	04/24/2013				
SUBJECT	Communications	PAGE 4				

#### **DEVICES**

Communications equipment facilitates providing a service, responding to an emergency, and solving any officer safety issues. The most common communications equipment used includes:

**Telephone—**There is a telephone at this location.

Nextel Direct Connect Radio—a Nextel Direct Connect radio is provided and the Direct Connect Radio should be used for all communications with CSU Security Control Center, Contract Account Manager and the Field Supervisor. The radio is an important link in the delivery of quality service and an important element for security officer safety. Hold the portable away from the body and move a few feet when reception or transmission quality is poor. Radio systems have "dead spots." Become familiar with these locations to minimize communication difficulties. Always leave the portable on while on-duty. Conserve battery power by using the portable radio only when needed. Call sign for this location is "Pueblo Dam".

#### **RADIO**

Radio exchanges should be simple yet efficient. Consistent formatting allows the users to focus on the content rather than the style. Repeating the officer radio name helps ensure the correct officer received the communication. Use the following preferred radio exchange when possible:

```
Dispatcher calling an officer;
```

```
(dispatcher radio name) to (officer radio name)
(officer radio name) by
(message)
(officer radio name), (acknowledge code)
(dispatcher radio name) (acknowledge code), (time)

Officer calling a dispatcher;
(officer radio name) to (dispatcher radio name)
(dispatcher radio name) by
(message)
```

(dispatcher radio name) (acknowledge code), (time)

#### Officer calling an officer or supervisor;

(officer radio name) to (other radio name) (other radio name) by

(message)

(other radio name), (acknowledge code)

An easily understood message is usually a short message. Short messages start with action words like "call, carry, escort, go, lock, meet, push, see, unlock." For example, "Escort Mary from the main lobby to her car" is much clearer than "Mary called and says she needs an escort to her car from the main lobby."

	SECURITY FACILITY ORDERS	
FACILITY	Pueblo Dam Connection Construction Site	04/24/2013
SUBJECT	Communications (Continued)	PAGE 5

#### **STATUS CALLS**

While on duty, the Security Officer (SO) will contact SCC randomly every hour. This call will be made so SCC knows the SO is okay and has no problems to report. If you fail to call hourly SCC will contact a G4S Field Supervisor who will contact you to verify your status. If contact is not made with the onsite SO G4S will dispatch a Supervisor immediately to check on the SO and report their status to SCC.

To provide consistent and reliable communications between the SOs and SCC, the following procedures will be followed.

During all shifts the SOs will maintain primary contact with SCC in the following order:

- Primary contact with the SCC will be made on SCC1
- If unable to get through on SCC1, the Officer will attempt contact on SCC2

Please keep in mind that SCC can get very busy so for low priority calls please wait a few minutes and then try SCC1 again. In addition, when contacting the SCC, please initiate communications by calling the call sign: "SCC this is **Pueblo Dam**.

#### **Duress Call:**

If the SO is under duress or need immediate assistance, he will call SCC and state he has a situation 10-33.

SECURITY FACILITY ORDERS					
FACILITY	Pueblo Dam Connection Construction Site	04/24/2013			
SUBJECT	Departmental Support	PAGE 6			

#### **DEPARTMENTAL SUPPORT**

<u>Name</u>	<u>Landline</u>	Cell Phone	DC
Colorado Springs Utilities:			
Colorado State Patrol Pueblo Fire Department CSU Security Control Center (SCC)	719-544-2424 911 719-668-STOP (7867)		
<u>G4S:</u>			
Quality Assurance Officer, Mike Colvin CSP Operations Manager, Mike Zajac Senior Operations Manager, Jon Miller General Manager, Dorothy Roth	719-637-2910 719-637-2910 303-341-4433 303-341-4433	719-310-6479 719-243-0379 303-356-8665 303-356-1210	
Garney Site Construction Project Manager:		719-243-0200	

	SECURITY FACILITY ORDERS		
FACILITY	Pueblo Dam Connection Construction Site	04/24/20	)13
SUBJECT	Emergency Procedures	PAGE 7	7

#### **EMERGENCIES MAY INCLUDE:**

- A. Fire
- B. Intruders/Trespassers
- C. Unauthorized Attempted Site Entry
- D. Suspicious activities around the property.

#### **CRIMINAL ACTIVITY**

Contact SCC immediately. If a crime is in progress, observe and document the full description of the individual(s) and/or vehicle including the license plate number. Intervene to the extent you can without endangering your person. Do not attempt to detain the individual; never place yourself in jeopardy or in a position of possible injury.

- a) Officer will contact responding police officers upon their arrival and escort them to the affected area.
- b) Officer will complete an Incident Report with all pertinent information (i.e., Case number, Police Officer's name, etc.)

#### **MEDICAL EMERGENCIES**

- a) If you discover the emergency stay with the victim and render first aid as your experience allows.
- b) Immediately call 911 and then contact SCC.
- c) If a defibrillator unit is located on site, the SO(s) will become familiar with the location of the unit, and assist in accessing the unit when needed or requested to do so.
- d) If, during the performance of their duties an SO discovers an incapacitated/unconscious person they will accomplish the following actions:
  - 1. Check and ensure the person is breathing/has a pulse.
  - 2. Determine if the person is injured.
  - 3. If the person is not breathing/has injuries i.e. severe bleeding, immediately call 911 and request medical response and then contact SCC and advise them of the situation. If the person is breathing and doesn't appear to have any life threatening injuries contact SCC and medical personnel response.

SECURITY FACILITY ORDERS							
FACILITY	FACILITY   Pueblo Dam Connection Construction Site   04/24/2013						
SUBJECT	Emergency Procedures (Continued)	PAGE	8				

#### **CRITICAL INCIDENT RESPONSE PLAN**

- ✓ Proceed to the scene as quickly and safely as possible.
- ✓ Arrive in a composed manner; do not arrive out of breath.
- ✓ Survey the scene before proceeding cautiously into the area.
- ✓ Be prepared to take action:
- Quickly determine if any witness or suspect has left the scene which may require additional action by another officer or the police
- ✓ Assist injured persons
- ✓ When required, request police/medical personnel involvement
- ✓ Never take action, which would endanger you or others—observe and document, from a safe place.
- ✓ Notify the:
  - 911 (if medical response required if not contact SCC)
  - SCC
  - On-duty security supervisor

#### **FIRE PREVENTION**

Knowledge of the nature of combustion is required for protection against fires. Fire prevention efforts attempt to eliminate conditions which cause or support combustion. Combustion is a rapid oxidation of a substance. Before a substance can ignite and burn, three conditions must be present:

- Fuel
- Oxygen
- Temperature high enough to cause the fuel and the oxygen to combine.

#### **FIRE CATEGORIES**

Classification of fire types include:

- A-wood, paper, textile, and rubbish
- B—gas, paint, and grease, highly combustible material
- C-electrical equipment
- D-metal fires.

#### **FIRE CONTROL**

Fire fighting consists of:

- Lowering the temperature of the fuel below the kindling point
- Preventing oxygen from reaching the fuel.

#### Extinguisher types:

**Pressurized water**—a silver canister, use on Class A fires only, contains two and one-half gallons of water, up to 30-foot range

Carbon dioxide—a red canister, use on class B and C fires, preferred in cooking and electrical fires, available in 2, 5, 10, 15, and 20 pound units, 8 to 10 foot range

Dry chemical—various colors, use on all fire classes, 8-foot range

**Haion gas**—various colors, use on all fire classes in a closed area only, usually not found in portable units but rather in computer room or kitchen systems, which release automatically.

SECURITY FACILITY ORDERS						
FACILITY	Pueblo Dam Connection Construction Site	04/24/2	013			
SUBJECT	Emergency Procedures (Continued)	PAGE	9			

#### FIRE PROCEDURE

When a fire alarm activates, the SO will assist with evacuations and treat the injured. Upon hearing sirens the SO will return to the gate, open the gate (if required) and direct the responders to the proper location.

#### **BOMB THREAT PROCEDURE**

Take the following steps to address a bomb threat:

- 1. The person who receives the threat will notify the SCC.
- 2. The SCC will notify the Sate Patrol.
- 3. If the SO receives the call, as soon as it is clear the caller is making a bomb threat, let them finish the message without interruption. While the caller talks, get the message **EXACTLY** and listen for clues in the caller's speech and background noise.
- 4. Procedures to follow after the caller has finished talking:
  - A. Ask where the bomb is located.
  - B. Ask what time it will explode.
  - C. Ask when it was placed.
  - D. Ask why it was placed.
  - E. Try to determine the caller's approximate age, sex, accent, etc.
  - F. Record the exact time of the call.
  - G. Record exact words if possible.
  - H. SCC will notify the Colorado State Patrol at 719-544-2424.
- 5. Write the message, in detail, immediately after the call. Then immediately notify SCC, evacuate the area and stand by for the Police.
- 6. The Police shall determine if a search shall be conducted and who shall conduct the search.
  - Managers, supervisors and other searchers shall be given information by security, police, and/or Administration including:
    - o Information, which may help in the identification of a possible bomb.
    - Whether or not any particular area should be evacuated immediately and whether or not transport of patients throughout the facility should be suspended until the search is complete
    - Areas should be searched by using a three-level method; first search ceiling to eye level, second search eye to waist level, third search waist level to ground
    - If possible, assign employees to search in pairs so that if something suspicious is found, one person can leave to call the command center while the second person cordons off the area
    - Searchers shall be cautioned not to touch anything. In particular, this includes light switches and other electrical switches. Anything suspected to be a bomb should be reported to the command center
- 7. Security shall search common areas as directed by the police.

If approximate location of the bomb is known, the search should be concentrated in that area, but should not be limited to there as there may be more than one bomb, or it may be a false trail.

SECURITY FACILITY ORDERS				
FACILITY	FACILITY   Pueblo Dam Connection Construction Site   04/24/2013			
SUBJECT	Emergency Procedures	PAGE	10	

#### **Dam Alarms or Peculiar After Hours Situations**

After hours, should you experience anything out of the ordinary affecting the Pueblo Dam structure you will immediately contact SCC and SCC will notify the Bureau of Reclamations for a response.

#### **Duress Code Procedure**

- 1. The SOs duress code is 10-33.
- 2. It should be passed to SCC in emergencies only when the SO is under duress and needs law enforcement assistance.
- 3. Should any SO get this code from another SO, the receiving SO will notify SCC immediately.
- 4. When SCC is notified of 10-33 by an SO, SCC will call the State Patrol with the intent that law enforcement response to the site is required.
- 5. SCC may or may not attempt to contact the SO under duress.

#### **EMERGENCY TELEPHONE NUMBERS**

Should you have an issue requiring assistance call the numbers listed below in the following order: (If a life threatening emergency occurs involving a life threatening injury to you or a person on site call 911):

<u>Name</u>	<u>Landline</u>	Cell Phone	<u>DC #</u>
Security Control Center (SCC) Colorado State Patrol Pueblo Fire	719-668-STOP (7867) 719-544-2424 911		
<u>G4S:</u>			
Quality Assurance Officer, Mike Colvin Account Supervisor, CPO Keith Welty XXXXXX CSP Operations Manager, Mike Zajac Senior Operations Manager, Jon Miller General Manager	719-637-2910 XXXXX 719-637-2910 303-341-4433 303-341-4433	719-310-6479 719-225-9129 719-243-0379 303-356-8665 303-356-1210	

	SECURITY FACILITY ORDERS	
FACILITY	Pueblo Dam Connection Construction Site	04/24/2013
SUBJECT	Facility Doors/Gates	PAGE 11

#### **Gate Operating Hours:**

The main gate to the construction area will be manned Monday through Friday at 0700 hours and the SO will stay at the gate and control access until 1800 hours. When the security fence is down for construction in the Reclamation secure area, the SO provide site patrols from 1800 hours through 0700 and during the weekend as requested. The gate to the Dam Construction area will stay closed unless the SO is allowing an approved vehicle into the area.

#### Site Access:

Personnel requesting entry to the Dam Construction site fenced area must have a PIV badge or be on an Entry Authorization List (EAL) and escorted into the area by a person with a PIV badge.

SECURITY FACILITY ORDERS			
FACILITY	Pueblo Dam Connection Construction Site	04/24/2013	
SUBJECT	General Information	PAGE 12	

#### **SECURITY MISSION**

The Mission of the Security Department is to provide protection services to all persons and property on the site through the efficient use of personnel, technology, prevention activities, and response to requests and emergencies.

The Security Department meets this Mission by enforcing access control procedures, conducting preventive patrols, escorting persons, completing property control activities, locking doors, wearing an easily identified uniform, responding to requests for assistance or critical security situations, and investigating potential or actual breaches of security.

#### **TRAINING**

Knowledge: SO assigned to this site will have a working knowledge and adhere to the following:

- A. The security contract as it pertains to the site
- B. Site entry procedures
- C. Site alarm system and alarm response procedures
- D. Emergency Procedures and Evacuation Plan
- E. Patrol procedures
- F. Forms used on site (DARs, IRs, Condition Reports (CRs), and Pass-ons.
- G. Site security procedures outlined in this SSI
- H. Locking and unlocking procedures
- 1. Hazmat materials stored on site and emergency procedures associated with these materials

#### **GENERAL RESPONSIBILITIES**

All SOs at this location are responsible for the security program tasks, activities and operations of the contract and contained in this SSI. In addition, this post is responsible for providing a secure and safe environment for the employees, contractors and visitors to the Pueblo Dam Construction Site. SO assigned to this post will:

- A. Strictly enforce access control.
- B. Conduct after hour's random patrols of the construction site, checking buildings, fences, vehicles, construction materials and the Dam Construction site within the fenced area. SOs will patrol for 50 minutes and take a 10 minute break. Patrol patterns and breaks will be randomized to prevent setting a predictable patrol pattern.
- C. Respond to and report suspicious persons, cars or activities occurring on or off the site to SCC using the direct connect radio or by calling 719-668-7867. (If the event is life threatening the dial **911** and then SCC.)
- D. Deter, detect and report theft or vandalism which occurs on the site.
- E. Initiate and properly complete Incident Reports (IRs) on any activity, crime, incident/accident occurring at the site.

SECURITY FACILITY ORDERS				
FACILITY	Pueblo Dam Connection Construction Site	04/24/2013		
SUBJECT	General Information (Continued)	PAGE	13	

- F. Report maintenance issues that arise (inoperative light bulbs, gate malfunction, etc.) to SCC. Annotate these conditions in the Daily Activity Report (DAR) and initiate a Condition Report (CR). If a maintenance issue arises that is critical to site security contact SCC immediately.
- G. Coordinate snow removal with site construction Superintendent, when four (4) inches of snow accumulates on site notify SCC.
- H. Not leave their post without being properly relieved. If your relief has not arrived within ten minutes past the designated post relief time; contact the Field Supervisor (FS) and the FS will contact SCC.
- I. Monitor and enforce access control: SOs will check all personnel and vehicles attempting entry to the Dam Construction site:
  - a. All persons entering the Dam Construction site will either have a PIV badge or be on an EAL and be escorted by a person with a PIV badge. SOs will confirm an individual's identification before allowing site access. Control Dam Construction site access is controlled through the use of PIV Badges and approved site EAL. Everyone entering the site will either have a PIV badge or be listed on an EAL. Persons list on EALs must be escorted into the fenced area by a person with a PIV badge. If a person is listed on an EAL the SO will require them to show their Drivers License (DL) with a picture on it. The SO will compare the picture to the person and validate their name is on the EAL before allowing escorted access to the site. The DL and EAL will be checked each and every day, the first time a person requests access that day. If the person returns at a later time that day and has already been checked that day the SO can allow the person site access based on personal recognition from the previous entry. Personal recognition will not be used for the initial entry, personal recognition can be used on subsequent entries.
  - b. Only construction vehicles, emergency vehicles, or authorized personnel are allowed in the fenced area. When an unauthorized person is detected on site, call SCC immediately and request a police response. Authorized personnel are:
    - i. Person with a PIV
    - ii. Persons escorted on site by a person with a PIV
    - iii. Bureau of Reclamations (BoR) personnel. Before a BoR person is allowed on site the BoR persons PIV badge will be checked. After checking the BoR persons badge the SO will immediately notify the site construction Superintendent of the BoR person's presence on site

Note: If a verified medical emergency occurs within the construction site, the SO can open the gate and let the emergency vehicle into the construction area without delay. After the incident names of the emergency vehicle occupants will be collected if required by BoR.

c. PIV Badge Access: Only persons with a PIV will be allowed to escort persons without a PIV into the construction area. Note: All persons entering the construction area, to include those who possess a PIV will be signed in and out on the Visitor Log.

	SECURITY FACILITY ORDERS			
FACILITY	Pueblo Dam Connection Construction Site	04/24/2	04/24/2013	
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- d. After Hours Access: Personnel requesting access to the site after hours must have a PIV badge or be escorted by a person with a PIV badge. The Construction Superintendent will notify the SO of any personnel authorized to enter after hours. This includes call outs, work hour changes, and personnel working beyond 1800 hours
- e. Dam Construction Site Gate Control: The Dam Site Construction gate (Yellow Gate) will remain closed at all time unless a vehicle needs access. If a vehicle needs access the vehicle will be directed to either pull up/back up to the gate. Once the driver has been checked and verified to have site access the vehicle will be searched (refer to vehicle search section) and when these checks are completed the gate may be opened by the SO. As soon as the vehicle is inside the site the SO will close and lock the gate.
- f. MASS CONCRETE POUR PROCEDURES: Periodically during the project there will be days when a "Mass Concrete Pour" will occur. On these days we will experience a large amount of concrete trucks entering the site and pouring concrete. During these days the following procedures will be followed:
  - i. A second SO will be stationed at the lower parking lot to check driver IDs against the EAL and conduct a vehicle search on each concrete truck entering the site
  - ii. The construction contractor will remove the double row of Jersey Barriers from in front of the chain link fence, vehicle swing gate
  - iii. When the first two concrete trucks are backed up to the two construction area security gates (yellow gate and chain link gate) the gates will be opened and the trucks will be allowed to back in
  - iv. The SO at the construction site gates will help control traffic and will assist in controlling the concrete trucks entering and exiting the gates
  - v. When the mass pour is complete and the last concrete truck pulls out of the gate the SO will close an lock both gates
  - vi. The SO will work with Construction Superintendent to have the double row of Jersey Barriers immediately placed back in front of the chain link fence, vehicle swing gate
- g. Process Servers: Law Enforcement officials in uniform, on duty, delivering official court paperwork are allowed on site but must be escorted by a person with a PIV badge. Personal process servers (non-Police) attempting to deliver individual paperwork such as repossession, subpoena, etc. are not allowed on site and need to be asked to leave the construction area.
- h. Hostile/Aggravated customers/employees: Periodically SOs may encounter a hostile/loud/aggravated customer/employee. During these incidents, the SO will tactfully respond to the area and will approach so the person can see them and is aware of their presence. Should their presence not defuse the situation and the person continues to be loud/aggressive the SO will tactfully ask the person to calm/quiet down. If the person continues to act in a disruptive manner, the SO will ask the person to depart the area, and if the person refuses to depart the SO will advise the person they are calling the police and will contact SCC and ask for a Pueblo PD response to assist with the person. If the person becomes physically violent, the SO will intervene and take

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appropriate defensive actions to prevent physical harm to themselves or site employees.

I TRESPASSERS ON THE BACK SLOP OF THE DAM: Should the SO observe persons other than Park or BoR employees on the Dam Slop they will immediately notify SCC. SCC will call the State Patrol and request a response.

#### **NJURED PERSON CONTACT**

Render first aid and call 911. Any injury to persons must be reported to the SCC immediately after 911.

#### PERSON NEEDING NON-EMERGENCY POLICE ASSISTANCE

Tell persons desiring non-emergency police assistance, for non-facility related issues, to call the police themselves, as they are the complainant. The SO should provide a telephone and telephone number, but the complainant should speak directly to the police.

#### **SITE VISITORS**

All visitors must be logged in on the security officer's Daily Activity Report.

No salespersons are allowed on the site without approval of the site Project Manager.

If a visitor, contractor and/or salesperson arrives at the site/facility requesting access the security officer will contact the Construction Superintendent and ask for assistance.

Media and tours must be scheduled thru Colorado Springs Utilities, Corporate Communication and approved by the Colorado Springs Utilities, Site Project Manager and coordinated thru the CSU SA. SCC will then notify the contract security company and inform them of the pending visit. **Under no circumstance, will Media or Tours be allowed on site unescorted.** 

#### **UNSCHEDULED DELIVERIES:**

If a vehicle arrives at the gate to deliver equipment/supplies and the driver is not in possession of a PIV or on an EAL the SO will contact the Construction Superintendent and have him come to the gate to vouch and escort the driver and vehicle on site. If the Construction Superintendent doesn't know about the delivery the driver will be turned away. If a vehicle arrives after hours they will be directed to park off site in the lower parking area out of the way until the Construction Superintendent arrives the next day to vouch them on site.

#### MISSING/FOUND PROPERTY

Any items found will be annotated in the security officer's DAR. The items will be turned over to the site Construction Superintendent the next business day.

#### **FIREARMS**

Firearms are not permitted on this site, either open carry or concealed carry.

- If a person arrives at the site with a firearm, the person will not be permitted to enter with the weapon and the SO must immediately notify the SCC.
- Law enforcement officers (uniformed/plain clothes) who arrive at a site with a weapon may enter after the SO checks their badge.

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#### On SITE EQUIPMENT

Do not tamper/touch any CSU or contractor equipment except as outlined in this SSI.

#### PROHIBITED DEVICES:

SOs will not bring on site, watch or listen to any of the following devices: Televisions, laptop/desk top computers, devises with headphones i.e. radios, walkmans, cell phones, IPods etc.

#### **COMPUTER USEAGE**

Contract security guard force computer usage is for e-mail communication. Sites with CCURE security monitoring stations will be used by trained SO to assist Utilities/City customers with access issues. All Security officers must have a User ID and Pass word to use Utilities/City computers. Upon arriving at post Security officers will log onto the computer and will check their e-mail accounts and will remain signed on for the duration of their shift. Security officers will never allow another SO to use a computer they are logged onto and will never depart the site/facility without logging off of the computer. Prior to using any Utilities/City computer Security officers will read, understand and sign the Utilities computer usage agreement. At no time will a SO attempt to load any type of program onto a Utilities/City computer; this includes games, virus protection devices, music etc. Any unauthorized use of a Utilities/City computer (i.e. internet surfing; stay within Springs Utilities Intranet, do not access the World Wide Web (www), personal email, school homework, etc) can result in the Security officers immediate removal from Utility/City sites/facilities security contract.

Should a SO ever have any questions about what they can do on a Utilities/City computer they will refer to the Utilities Computer Usage Quality By Design Policy in their facility order book or will consult their Site Lead, Field Supervisor or SCC for advice.

SO's will check their e-mail at least every four (4) hours.

Officers that have failed **three** attempts when logging into the C\*CURE System are required to contact SCC (Security Control Center) and report the unsuccessful log in. Ideally, if you have tried to log in unsuccessfully two times, call SCC before proceeding with the third attempt. This will avoid SCC from getting an alert notice.

Please be sure to make these notifications immediately after each session of attempting to log in. When calling SCC, officers will provide their name, location and background information, reporting why access is being denied. By calling in and reporting these attempts in a timely manner you are assisting SCC in **fine tuning** our internal "credential verification" process.

#### **HAZMAT**

The site Project Manager will provide all assigned SOs a briefing on the locations of hazardous materials on the site and will also provide the SO with a Materials Safety Data Sheet (MSDS) on all hazardous materials on site. G4S management will ensure all new SOs receive hazmat training from the site Project manager.

#### **SMOKING**

Smoking is only allowed on this site in the designated smoking area.

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#### **Photographing**

#### **General Rule:**

Confrontations that impair the constitutional right to make images are becoming more common. The general rule in the United States is that anyone may take photographs of whatever they want when they are in a public place or places where they have permission to take photographs. As a property owner, CSU may legally prohibit photography on our premises but we cannot prohibit others from photographing our property from other locations.

CSU employees are authorized to photograph/video the Dam construction site as needed in the course of their job responsibilities. If security witnesses this occurring, they must ascertain the individual is a CSU employee by asking for and reviewing the persons CSU ID. If the ID matches the person then the event should be logged in the DAR and documented with an IR. If the person has no ID badge, the photos/video will be stopped and reported to SCC for direction.

The intent of the policy is to provide a control point in authorizing the public (under CSU escort) to take photographs of our site and operations. It also provides for media to take pictures under the escort of Corporate Communications.

If a person is observed taking photos of the dam and construction site the SO will get a description of them and report this to SCC and complete a IR on the event. If possible you will approach the person(s) in a friendly manner and offer to assist, without answering any questions about the site. You will ask the person their name and drivers license (if they refuse do not insists on seeing the DL) take down vehicle make, model, license plate #, (etc.), a description of the person(s) and request them to state their business. Notify SCC immediately and complete an IR describing the event in detail. Remember you cannot ask them to leave if they are on public property.

#### **MEAL BREAKS:**

SOs are authorized a 30 minute paid meal break each shift. This meal break will be taken in the security office located at the main gate of the site. This break may be coordinated with the post check by the Field Supervisor.

Questions: Questions concerning this SSI will be referred to the CSU SA or his/her staff.

Administration: Changes to this document will only be made by the CSU SA or his/her staff.

#### **POST VISITS**

The SOs will contact SCC anytime the following personnel conduct a post visit at their location. SOs will relate the time the post visit started and stopped. The SCC will record these post visits in the SCC blotter.

- 2. Brandt Laird
- 3. Vince Dougan
- 4. Cindey Arroyo
- 5. G4S Field Supervisor
- 6. G4S Management

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#### **VEHICLE SEARCH TECHNIQUES**

- A. TYPES OF VEHICLE INSPECTIONS TO BE CONDUCTED AT PUEBLO DAM:
  - a. In-Line Inspection: All vehicles requesting access to the Dam Construction site will be put through an in-line vehicle inspection a single lane of traffic. The inspection on the vehicle will be conducted while those behind are required to wait until it is completed.
  - **b.** All vehicles requesting access to the Dam Construction site will have a "Full Vehicle" inspection conducted on it using the following steps:
    - i. Stage 1: Take control of the vehicle and driver.
      - 1. Have the driver turn off the engine
      - 2. Ensure that the transmission is placed in park, or if the vehicle has a manual transmission, leave in gear
      - 3. Direct the driver to engage the parking brake
      - 4. Check the driver's Divers License
      - 5. Validate through the EAL the drivers is authorized on site. If they are not listed on the EAL contact The Construction Superintendent to see if they are expecting the delivery. If authorized proceed with inspection.
      - Request the driver open any packages that are in the passenger compartment
      - 7. Have the driver open all interior compartments (glove box, console, ashtrays) front and rear
      - 8. Have the driver open the trunk and engine hood
      - 9. (Situational) Have the driver exit the vehicle and taken at least fifteen feet away from the area by the second security officer.
        - a. If the driver refuses permission to search or interferes with the attempt to search explain the need for the search. Remember to be polite and respectful, however, if compliance is not forthcoming direct the driver to depart the area immediately. If they refuse call SCC and have them notify the State Police.
    - ii. **Stage 2:** Stage two involves a search of the vehicle's exterior, engine compartment and trunk. This search should be broken into sections with a degree of overlap to ensure that nothing is missed..
      - 1. Engine:
        - a. Give a visual overview to the entire compartment
        - b. Select a point, usually at the center of the radiator, to begin the search
        - c. Move to the right of the radiator and down along the engine to the firewall
        - d. Come back to the center and repeat the search to the left

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- e. Use a handheld mirror, extending the handle as needed, to see under and around parts
- f. Use a flashlight to see dark areas
- g. Make sure to inspect the underside of the raised engine hood

#### 2. Trunk/Storage area:

- a. Give a visual overview to the entire compartment
- b. Select a point at the center rear and search to the right and back to the center
- c. Continue the search to the left
- d. Check the wall between the trunk and the passenger compartment
- e. Check the walls of the trunk for storage bins; open them if the driver did not do so
- f. If a spare tire is in the trunk, remove it and check underneath
- g. If the spare tire is in a compartment below the floorboards, open the compartment and check it
- h. Use a flashlight and handheld mirror

#### 3. Left Front:

- a. Begin at the center point of the grill
- b. Check under and around the grill and chrome
- c. Feel under the bumper and use the mirror and flashlight for visibility
- d. Move along the fender to the end of the driver side door
- e. Inspect the wheel well and behind the tire, again using the mirror and flashlight

#### 4. Left Rear:

- Begin at the rear door and work back toward the center of the trunk
- b. Check under the rear bumper, again using the mirror and flashlight
- c. Inspect the wheel well and behind the tire
- d. Open the gasoline door and check the space around the neck of the filler, remove the gasoline cap and check for any signs of items hidden in the gasoline tank (e.g. protruding wires or string that may indicate items suspended in the tank)
- 5. Right Front: Repeat steps used on Left Front.
- 6. Right Rear: Repeat steps used on Right Front.
- 7. When the steps have been completed, make a visual inspection of the vehicle's roof. If a carryall is on the roof make sure the driver has opened it for inspection.

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- ii. Stage 3: The third stage is a search of the vehicle's interior:
  - Left Front:
    - a. Check the ashtray
    - b. Inspect the center console
    - c. Pull down the sun visor and inspect each side
    - d. Check the top of the dashboard
    - e. Check the instrument panel
    - f. Inspect the radio and CD or tape player
    - g. Inspect the seat beginning at the top and pat down to the bottom
    - h. Look under the seat using a mirror and flashlight
    - i. Check the space between the seat and center console
    - j. Inspect door pockets
  - 2. Right Front:
    - a. Check the glove box
    - b. Inspect the top of the dashboard
    - c. Pull down the sun visor and check both sides
    - d. Inspect the seat beginning at the top and pat down to the bottom
    - e. Look under the seat using a mirror and flashlight
    - f. Check the space between the seat and center console
    - g. Inspect door pockets
  - 3. Left Rear:
    - a. Pat down the rear of the front seat
    - b. Look under the front seat with a mirror and flashlight
    - c. Pat down the rear seat from the top to the bottom
    - d. If the rear seat folds down, check behind it
    - e. Check the shelf along the top of the rear seat
    - f. Inspect the door pockets
    - g. If there is a rear console, inspect it
  - 4. Right Rear: Repeat steps used in left rear.
    - a. NOTE: Security officers conducting an interior search should never reach under or behind anything for an object that cannot be seen. Never force anything. If in doubt leave the item in place and call a supervisor. If an item can be seen but you feel that it may present a contact hazard (e.g., tissues, cloth, envelopes, etc.) use a grasping tool to pull it gently into view. If ever in doubt about the safety of moving an item, do not do so. Call a supervisor.

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#### iii. Stage 4: Inspection of the Vehicle Undercarriage.

#### 1. Front:

- a. Place the mirror under grillwork at the center and work toward the right front wheel and back again
- b. Work the mirror from the center to left front wheel and back
- c. Check under the engine as the mirror moves extending it as far as possible

#### 2. Left Side:

- a. Beginning at the back of the left front wheel, place the mirror under the vehicle
- b. Moving the mirror back and forth with an overlapping motion work toward the front of the rear tire

#### 3. Rear:

- a. Place the mirror under the vehicle at the midpoint of the trunk
- b. Work to the left side as far as the rear of the left rear tire

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#### CONFIDENTIALITY

Information, names, and circumstances made available to security personnel during the course of their employment shall be confidential.

Never provide personal information about an employee; refer these requests to the CSU SA.

#### **DISTURBANCE CONTROL**

Each situation requires officer judgment, quick response, and attention to detail. Generally:

- Respond, quickly and safely, to an area near the disturbance; never run; arrive in a composed manner
- Survey situation to determine risk to persons; call for Supervisor and request backup if situation is beyond officer's possible control
- · Separate persons; determine facts from each person involved
- If separation does not work or facts indicate, contact law enforcement
- Write a Security Incident Report.

#### CIVIL DISTURBANCE

SOs will assist in reducing damage and disruption to the sites mission during a civil disturbance.

A variety of civil disturbance situations can negatively affect CSU operations. They include riots in the community, demonstrations, labor unrest, and the gathering of large crowds of boisterous persons on the grounds or within the facility.

A civil disturbance is likely to increase media activity. Do not make statements. Refer members of the media to the CSU Corporate Communications office in accordance with CSU policy. Media will not be allowed unescorted access to the site and must be escorted by a CSU employee at all times.

Civil disturbances external to the site may result in large numbers of persons seeking treatment and/or causing malicious destruction of property in parking lots and to buildings or grounds.

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#### **Procedure**

It may be necessary to implement some of the following steps before an actual disturbance to reflect a proactive approach to avoiding or minimizing the results of an actual disturbance:

#### **External**

- Secure the perimeter by restricting driveways or walkways onto the property
- Restrict access to the facility proper
- Activate security control posts on assigned priority
- Establish a secured communication/command post
- ▶ Remove items from the grounds (i.e., trashcans, sprinklers)
- Maintain a high level of security presence on the grounds of the organization
- Draw curtains or shades over window areas facing the exterior
- Move persons from window areas
- ▶ Set up a media room
- Maintain on-going coordination with public safety agencies.

#### internal

- Seal off area of trouble or potential trouble.
- Establish a secured communication/command post.
- Identify leaders and develop a dialogue if possible.
- ▶ Begin clearing the area in as non-confrontational manner if possible.
- Maintain on-going coordination with public safety agencies.

#### CRIME SCENE (SUSPECTED OR ACTUAL) PROTECTION

Do not touch anything. The nature of the crime and the type of evidence requires the officer be extremely careful in moving about so as not to damage or otherwise destroy evidence. In general, no one should enter or leave the area pending police arrival.

Obtain the names and addresses of possible witnesses, provide this information to the police, and include it in a Security Incident Report. Ask the witnesses to wait for the police to arrive.

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#### **HOSTAGE SITUATION**

SOs will assist in protecting persons and reducing disruption to the sites mission during a hostage situation.

A hostage situation involves one or more persons holding another person(s) against their will in order to obtain notoriety, money, or a change in the sites position on an issue. A hostage situation can occur in any part of the interior or exterior of the site. The situation could occur off site property and then move to the site as a suspect/victim flee from the police.

A hostage situation is likely to generate heightened media activity. Do not make statements on behalf of CSU. Refer members of the media to CSU Corporate Communications. Media will be restricted from freely moving throughout the site.

#### **Procedure**

Follow these guidelines in case of a hostage situation:

- Establish an inner perimeter, keeping all persons from getting within range of danger
- ▶ Establish an outer perimeter, evacuate all non-essential people from between the inner and outer perimeters
- Notify public safety agencies
- Notify SCC
- > Set up a communication/command center and establish a media room

Assist the public safety agency as needed including:

- Describe or diagram the specific area and surrounding area
- Number, description, and name of suspect
- Number, description, and name of hostage
- Number and description of weapon
- Preliminary demands or intentions of suspect.

#### LAW ENFORCEMENT AGENCY CONTACT/ASSISTANCE

Do not hold a person for an agency. The law enforcement agency should supply the labor for this action.

Record, on a Security IR, information received from an agency including the name of the agency and officer giving the information.

The officer will complete a Security IR and report missing site property.

The owner is responsible to file a police report about missing personal property. Inform the owner the Security IR is not a police report. Assist the owner in making a police report if requested. The officer should advise the owner to make a police report after making an effort to locate the property. Note in the Security IR if the owner declines the officer's advice or states they will make a report later.

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#### **VEHICLE ACCIDENTS**

Police agencies are not generally interested in a non-injury automobile accident occurring on private property. They may not respond to this type of accident. Involved parties may make a "counter" report at a local station if they wish. The SO will complete a Security IR if the accident occurred on Facility property. The SO will notify the site Construction Superintendent and SCC of any vehicle accidents that occur on site.

#### **USE OF FORCE**

Appropriate force is any single or combination of an officer's:

- Body language
- Speaking volume
- Word use
- Body position
- · Use of a tool such as;
- Flashlight

Compliance is a person's submission to the officer's directives.

An officer uses force to gain compliance. Compliance: Protects the officer, nearby persons, and the compliant person from danger

An officer uses just enough force to gain compliance. Generally, apply an increasing amount of force to gain compliance. A situation may initially require a medium or high level of force to reduce or prevent imminent danger.

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#### **MOTORIST ASSISTANCE**

SOs are not to provide jumpstarts to employees, visitors or contractors P.O.V., (Privately Owned Vehicle) or CSU vehicles. In addition, SOs will not unlock or attempt to unlock an employee, visitor or contractor P.O.V. or CSU vehicle.

#### **PARKING**

Site workers will be directed to park in designated parking areas.

#### **ESCORTS**

If requested, SOs will escort an employee to their vehicle.

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Site SOs will be familiar with the site Safety Plan and any hazardous chemicals contained on site.

- All SOs will be trained and knowledgeable of the Construction site Safety Plan. Specific attention will be made on the following sections of the plan:
  - i. Section 2 Emergency Response Plan
  - ii. Section 3 Fire Prevention Plan
  - iii. Section 4 Spill Response Plan
- Once per year, G4S must coordinate and schedule a meeting with the Construction Superintendent and/or his designee to:
  - Conduct a site walk through so as to be familiar with the locations of hazardous chemicals and be familiar with the Material Safety Data Sheets (MSDS) for them
  - ii. Be made aware of the potential dangers associated with the storage and use of these chemicals at the site
  - iii. Be made aware of facility emergency procedures should a release/spill occur
  - iv. Be made aware of personnel actions to take in the event of an actual or suspect release/spill to protect personal safety
  - v. Be made aware of the location of MSDS or be provided access to a database with MSDS information
- G4S management will review with all site security personnel the above listed actions on an annual basis.
- G4S shall maintain documentation confirming all their personnel working this site are aware of the storage locations, use and emergency practices for all hazardous materials stored on site. A record of this training will be filed annually with the CSU SA.

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The SO will make sure all construction workers and visitors park in the designated parking areas and will ensure the gate accessing the construction area is not blocked for extended periods.

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- A. Conduct after hour's random patrols of the construction site, checking buildings, fences, vehicles, Dam Area inside Fence and construction materials and storage area. SOs will patrol for 50 minutes and take a 10 minute break. Patrol patterns and breaks will be randomized to prevent setting a predictable pattern. During patrols, check all exterior and interior building doors/windows and gates, and the perimeter fence line for cutting, erosion and tunneling. SO will contact SCC at the start and end of all site patrols.
- B. <u>All patrols on this site are to be foot patrols.</u> No private/G4S vehicles are to be used for the purpose of conducting patrols.
- C. Be careful on your rounds. There are many tripping hazards, and snakes have been seen on the site. In the winter, watch for icy conditions.
- D. Inclement Weather: If during inclement weather i.e. rain/thunderstorm or severe snow storms the officer feels their well being is in danger and they feel they should curtail foot patrols they will contact SCC and get approval to curtail patrols until weather conditions improve.
- E. When not on patrol the SOs will take their breaks in the security office near the main gate.

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#### RECORDS AND REPORTS

Reports are the basis for administrative decisions, court action, and evaluation of an officer's work. Report all incidents objectively.

Good reporting involves observation, detail, accuracy, legibility, and logical sequence. A report must be complete so the reader will have clear knowledge of what event occurred, what actions were taken, and what actions need to be taken.

SOs will complete all reports before going off duty.

There are four report form types. Each form has a specific use. Using the correct report form will assist the officer in writing an accurate and correct report. The report form types include:

- 1. Security Incident Report—used to write facts about an unusual event requiring officer attention or information, which may be needed in the future.
- 2. **Condition Report**—used to notify CSU about a static security, maintenance, or safety issue that needs to be corrected.
- 3. Pass-On—used to notify security staff members about special duties or general information of a short-term nature. Each security officer must read the Pass-on information entered since the last tour of duty and sign the appropriate page(s). Read the previous ten days of information when temporarily filling in where not regularly assigned. Officers, supervisors, or administrative personnel may make entries into this record.
- 4. **Daily Activity Report**—contains a list of routine duties, the time each duty is scheduled, and handwritten descriptions of activities performed by the officer.

Good report writing begins with a thorough initial investigation and answers the following questions:

**Who—**complainant, witness, owner, discoverer, person with access, injured person, suspect including hair and eye color, race, gender, physical build, clothing, age, weight, height, unusual characteristics.

What—size, color, shape, material, dollar value, age of item.

When-last seen, discovered missing.

Where—address, Facility building name, parking lot, room number.

How/Why—forced, unlocked, locked, broken, equipment used.

Action Taken—interviews conducted, police called, evidence collected, search made, apprehension of person. If police are called and a police report is completed include the police report number and officers name on your IR.

Misspelled words, incomplete sentences, and unreadable printing reduce the reader's confidence in the accuracy of the entire report.

Do not use abbreviations other than titles such as Mr., Mrs., and Ms. Print the complete reporting party or witness' name once and then use the last name thereafter. Refer to yourself as "I" or "me." Always spell out the word or phrase. Do not use radio codes or other security-related jargon.

Use the P.O.W.E.R. method to write the report:

Preview notes to insure all facts are available.

Organize the facts in logical order.

Write a Draft Security Incident Report.

Evaluate the draft and have a fellow officer check for clarity.

Re-write the report on the Security Incident Report form.

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A pocket note pad should be used to record information obtained in the field. A Draft Security IR is an excellent note-taking tool.

A standard opening to almost any report is "At the above date and time." Use short paragraphs and limit each paragraph to one subject. Use plain and simple language. Be sure there is no question about who furnished each piece of information. Double-check the spelling of all names.

All paper reports are to be hand printed. Use a black ballpoint pen and press hard!

All reports are the property of CSU. SOs shall not make additional copies of any report. At no time is a SO to release a copy of a report without permission of the CSU SA.

When more than one officer assists with an incident or when an officer continues an investigation, which another officer started, complete the Security IR in the following manner:

The original officer—will complete the heading, the first part of the narrative, and sign the report immediately below the narrative

**Each subsequent officer**—will write additional narrative information and sign following the information

**The final officer**—will write additional narrative information and complete the bottom of the report.

#### **INCIDENT CLASSIFICATIONS AND DEFINITIONS**

Categorize each Security Incident Report in one of the following classifications:

THEFT VANDALISM MEDICAL PROPERTY DAMAGE VEHICLE DAMAGE OTHER

	SECURITY FACILITY ORDERS		
FACILITY	Pueblo Dam Connection Construction Site	04/24/	2013
SUBJECT	Scheduled Duties	PAGE	32

Each duty will be complete as outlined. The scheduled time is a guideline; times may vary due to service requests or other activities. Use officer judgment or supervisor/administrative consultation to prioritize activities when delays arise. Complete delayed duties as soon as possible.

Time	Shift	Activity
Hourly	All	50 minute patrol of entire facility
Per Shift	All	Once per shift SOs are authorized to take a 30 minute paid meal break. This break will be taken in the security office located near the main gate.

SECURITY FACILITY ORDERS					
FACILITY	Pueblo Dam Connection Construction Site	04/24/2	2013		
SUBJECT	SUBJECT Security Keys and Equipment Accountability Page PAGE 33				

All security key rings have the following keys:

TYPE	MARKING	DOORS/LOCATIONS
Keys		
Search Mirror		
	<u>, , , , , , , , , , , , , , , , , , , </u>	
	J	<u> </u>

	SECURITY FACILITY ORDERS	
FACILITY	Pueblo Dam Connection Construction Site	04/24/2013
SUBJECT	Security Staffing	PAGE 34

This is a 24-hour post. The site designates the following staffing assignments, which will be managed by the Lead Officer/Security Officers:

Assignment Name	Days of Week	Hours of Day	Weekly Total
Keith Welty	TBD	TBD	40
Joe Gates; Johnny Hunter	TBD	TBD	80
Alvin Sais	TBD	TBD	48
	GRAND WE	EKLY TOTAL	168

	SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	TOTAL
Officer								
Officer								
Officer				<u></u>				
Officer				<u> </u>	<u> </u>	<u></u> ,	<u> </u>	<u></u>

CONTRACTOR's Security Plan



#### **SDS PDC1B, PWC & RPSSI**

#### **Site Security Plan**

**Site Security Plan:** Garney Construction will implement the following plan to secure the Southern Delivery PDC1B & PWC Pipeline Project.

During working hours, Garney employees will maintain security and protect the site throughout each work shift. If working in the secured area, G4S Security will be onsite for maintaining security.

During the non working hours Garney will employ a subcontractor to secure the site. The subcontractor will be a trained security guard but will not be armed. Garney's unarmed guard will provide security only in the lay down area and work limits outside the Reclamation secure area. When working within the secured area, G4S guards will be onsite and armed.

When Garney's security officers have joint oversight of the sight, the G4S officers will focus on the Reclamation secured area and Garney's contractor will focus on the staging area and work limits outside of the secure fence.

The Guard on Duty will call the following, in sequence, if there is an occurrence:

#### **Emergency:**

911

#### Suspicious Activity/ Non-Emergency:

Ryan Schulte

John Miller

Bill Williams

**Local Authorities** 

Tools, equipment and small materials will be locked whenever possible by the use of fencing, tool trailers, connex boxes, and other storage devices all equipped with a variety of <u>Equipment Lock</u> Products.



#### **USBR Secured Area:**

- \*Anyone accessing the restricted area past the Chainlink Fence at the Dam must be accompanied and remain in eyesight of your escort.
- \*All entrants must sign in and sign out with the appointed security guard at this location.

## SECURITY CLEARANCES FOR WORK WITHIN RECLAMATION SECURED AREAS

- A. Reclamation secured areas are shown on drawings.
- B. Work Package 1B Station 10+00 through Station 12+30 will occur within Reclamation's Secured Area.
- C. CONTRACTOR's Responsibilities:
  - 1. Assign one point of contact to work with Reclamations PIV
    Coordinator. This point of contact will be responsible tracking progress of PIV
    applications between CONTRACTOR's personnel and
    Reclamations PIV Coordinator. CONTRACTOR personnel will need to
    have a personal email account, access to the internet and a fax machine to
    complete the Questionnaire for Non-Sensitive Positions (SF-85) via
    Reclamation's e-QIP system.
  - 2. Provide personnel list and forms to Reclamation PIV Coordinator for all personnel onsite. Allow 2 weeks from submission of information via Reclamation's e-QIP system for Reclamation to tentatively approve an individual's PIV and issue security clearance prior to allowing personnel onsite, assuming that no unfavorable information is provided from the National Agency Check. Six weeks after Reclamation receives the employee's data in Reclamation's e-QIP system, a National Agency Check with Inquiries (NACI) will have been completed. If the NACI contains unfavorable information, the employee will have their access to the construction site revoked.
  - 3. Upon PIV approval and issuance of security clearance, CONSTRUCTION MANAGER will issue a project specific Personal



#### **ADVANCING WATER**

Identification Badge. Badges shall be worn at all times while onsite for the duration of construction.

- 4. CONSTRUCTION MANAGER will issue a project specific Vehicle Identification Pass. Passes shall remain in construction vehicles for the duration of construction.
- 5. Adhere to National Security levels and requirements.
- 6. Maintain complete accurate log of all personnel, subcontractors, and visitors onsite.
- 7. Visitors must provide copy of valid driver's license prior to entering site.

#### **United States Bureau of Reclamation:**

- a. Eastern Colorado Area Office:
  - 1) Contact Person: Karl Thiel.
  - 2) Telephone: (970) 962-4331.
- b. Dam Operations:
  - 1) Contact Person: Roy Vaughan.
  - 2) Telephone: (719) 561-9855.
- c. PIV Coordinator:
  - 1) Contact Person: Alma Bergerson.
  - 2) Telephone: (406) 247-7801.
- d. Personnel Security Specialist:
  - 1) Contact Person: Ron Yesda.
  - 2) Telephone: (406) 247-7620.
- e. Dam Safety:
  - 1) Contact Person: Paula Baty.
  - 2) Telephone: (970) 962-4375.
- f. Safety and Security Manager:
  - 1) Contact Person: Howard Bailey.
  - 2) Telephone: (970) 962-4355.
  - 3) Or David Hartman (970) 962-4343.

#### APPENDIX K

## Reclamation Authorization for Armed Security Services



IN REPLY REFER TO: EC-1600 ENV-6.00

#### United States Department of the Interior



#### **BUREAU OF RECLAMATION**

Eastern Colorado Area Office 11056 West County RD 18E Loveland, Colorado 80537-9711 MAY 1 8 2010

Steve Duling
Project Manager
Colorado Springs Utilities
P.O. Box 1103, Mail Code 0930
Colorado Springs, CO 80947

Subject: Authorization of Security Services for Southern Delivery System Construction

Operations at Pueblo Dam, Fryingpan-Arkansas Project, Colorado

Dear Mr. Duling:

As previously discussed between my staff and Colorado Springs Utilities (Utilities), the Bureau of Reclamation authorizes and requires Utilities to provide armed security services during certain phases of construction of the Southern Delivery Systems (SDS) at Pueblo Dam. These phases of construction include those which are within Reclamation facilities, attach directly to Reclamation facilities, or are conducted within Reclamation's secure areas of operation.

Security services personnel, whether provided directly by Utilities, or through the use of a contractor, are authorized and required to provide crime prevention services, crime detection services, and act on behalf of Reclamation to protect life and property. Costs for, and liabilities of, all security services activities at SDS construction sites will be borne entirely by Utilities. Security services will remain the responsibility of Utilities throughout the construction process.

Security services personnel must function in a manner consistent with Colorado law (refer to C.R.S. 18-1-701 through 708). Security services personnel must also comply with any other applicable Federal, state or local laws, as well as regulations or ordinances. Security Officers will be agents of Colorado Springs Utilities, a political subdivision of the State of Colorado.

Security services are to operate at the highest quality of professional security standards. This includes utilizing qualified, careful, and efficient personnel operating in accordance with guidance provided by Reclamation. Because of the sensitivity of armed guard services within a State Park, Reclamation also requires that security services personnel conduct themselves in a manner so as to minimize interactions with lawful State Park visitors.

Reclamation appreciates the opportunity to participate in the development of Utilities' Request for Proposal (RFP) for Security Services (RFP-AW-78427). The requirements provided in the RFP appropriately address Reclamation's concerns. Any changes to the RFP's technical requirements in the resulting contract will require approval by Reclamation.

If you have any questions regarding this letter, or security services required by Reclamation for SDS activities, please contact Howard Bailey at 970-962-4355.

Sincerely,

Michael P. Collins Area Manager

cc: John Geerdes
Regional Manager
Colorado State Parks
4255 Sinton Road
Colorado Springs, CO 80907

Brad Henley Manager Lake Pueblo State Park 640 Pueblo Reservoir Road Pueblo, CO 81005

#### APPENDIX L

# Reclamation Safety Review and Acceptance of Work Package 1B



### United States Department of the Interior

BUREAU OF RECLAMATION
Great Plains Region
Eastern Colorado Area Office
11056 West County Road 18E
Loveland, CO 80537-9711

APR 19 2013

EC-1800 PRJ-13.00

Colorado Springs Utilities

Attention: Mr. Steve Duling, Project Manager

P.O. Box 1103, MC930 Colorado Springs, CO 80947

Subject: Safety Review of Design and Proposed Construction of Pueblo Dam Connections

Work Package IB, Southern Delivery System - Fryingpan Arkansas Project, Colorado

Dear Mr. Duling:

Reclamation understands that Colorado Springs Utilities plans to construct Pueblo Dam Connections Work Package 1B beginning in August 2013. Construction activities for this work package will include: connection to the existing 90-inch pipeline associated with Work Package 1A; a raw water pipeline from station 10+00 to Station 26+44.44; a 90-inch diameter tee for future Reclamation interconnection; a Reclamation meter vault; hydropower turnout; and pipeline cathodic protection system.

Actual construction cannot start until the Work Package 1B Construction Management Plan and Special Use Permit have been executed. Reclamation has reviewed the design construction plans and completed a dam safety review of the planned construction. This letter documents acceptance by Reclamation of the submitted design construction plans.

Please contact me at 970-962-4331 with any questions regarding this information.

Sincerely,

Karl Thiel

Deputy Chief, Operations & Maintenance

Appendix M is Reclamation's Special Use Permit (SUP). Draft SUP not currently available. SUP will be included once issued.



APPENDIX M

**Reclamation Special Use Permit** 

# SOUTHERN DELIVERY SYSTEM PDC1B & PWC EMERGENCY RESPONSE PLAN

#### LINES OF COMMUNICATION / RESPONSIBLITIES PROJECT SITE LOCATION

NORTHING: 38-16-22.80 EASTING: 104-43-22.09

**PROJECT MANAGER: Bill Williams** 

Bill Williams will be the immediate company liaison for any outside communications, until such time as the CRISIS MANAGEMENT TEAM LEADER is contacted and assumes these duties as outline in the Garney Crisis Management Plan.

#### **PROJECT SUPERINTENDENT:** Gil Duran

In the event of an emergency Gil Duran will serve as the main point of contact for all employees and subcontractors. Gil will provide the necessary procedural information and account for all individuals on site.

#### PROJECT SAFETY / QUALITY FIELD ADMINISTRATOR: Alice Duran

Alice will serve as the first point of contact for any emergency services. Alice will coordinate all access activities surrounding the incident. Her duties will be to oversee the actions of those individual providing services directly to the incident. If possible Alice should be in phone contact with 911 or the emergency response services.

#### **ASSEMBLY POINT**

The assembly point will be the Project Superintendent's Pickup. All employee's and subcontractors shall report to this site for accountability and further instructions.

#### **FIRST AID RESPONDERS:**

First aid responders will stay with the injured giving as much medical attention as possible. These people must stay with the employee until professional medical response has arrived and taken over the situation. The following are First Aid Responders:

Gilbert Duran Alice Duran Jeff Riddle Gene Lopez Roman Cortez

#### **CONTACT INFORMATION**

EMS 911 POLICE 911 FIRE 911

#### **EVACUATION**

The Evacuation Signal will be <u>THREE LONG BLASTS</u> of an equipment horn. If you hear this sequence of sounds assume the danger is real and immediately evacuate the work area and report to the Assembly Point.

#### KNOW YOUR ROLE, SOMEONES LIFE COULD DEPEND ON IT

In the event of an emergency, employees should react as follows:

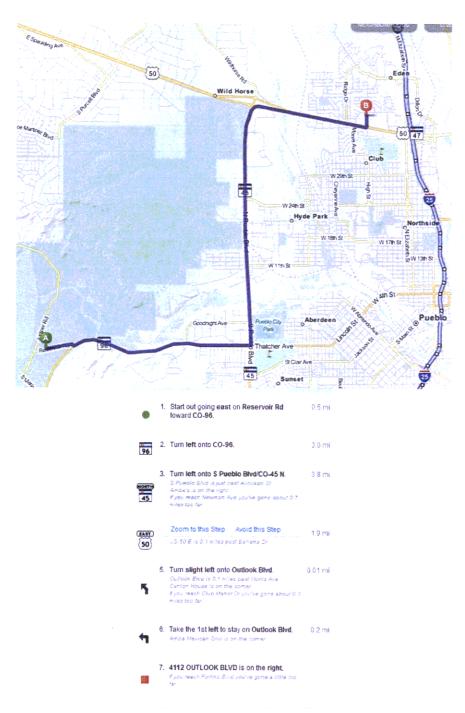
- 1. Stop all work immediately
- 2. Shut down all machinery, equipment and hot work
- 3. Notify any sub contractors working in their area
- 4. Proceed to rally point

# SOUTHERN DELIVERY SYSTEM PDC1B & PWC FIRST AID AND MEDICAL CARE LOCATION

Dr. Olsen's Office

4112 Outlook BLVD Suite 37, Pueblo, CO 81008

(719) 562-6300



#### **First Aid Kits**



It's how we're all connected

#### SUBMITTAL REVIEW

Please email response to SDS Document Controls

21 South Tejon Street 3<sup>rd</sup> Floor Colorado Springs CO 80903 The basic steps are: Name the document containing the comments: Project\_Submittal Response\_Submittal Number -

name of commenter (PDC1B\_Submittal Response\_Submittal Number\_SDS)

Subject Line: Project: Submittal Number-Submittal Response

Project:	Pueblo Dam Connection 1B	_		
Submittal No.:	01 35 29-002			
		NO EXCEPTIONS TAKEN	MAKE CORRECTIONS NOTED	X
<b>T</b>	Emanage Parage Plan	AMEND AND RESUBMIT	REJECTED SEE REMARKS	<del>                                     </del>
Description:	Emergency Response Plan	REVIEWED BY: G. STURDIVANT	DATE: JULY 9, 2013	
Spec. Section: Submitted By:	01 35 29  John Miller, Garney  Construction	COMPLIANCE WITH CONTRACT DRAWIN DRAWING HAS BEEN REVIEWED FOR CO AND GENERAL COMPLIANCE WITH T	RELIEVE THE CONTRACTOR FR NGS AND SPECIFICATIONS. THIS SI ONFORMANCE WITH DESIGN CONCI THE CONTRACT DOCUMENTS ON	OM HOP EPT LY.
Reviewer:	Dave Hartman (UBSR ECAO)	CONTRACTOR IS RESPONSIBLE FOR C QUANTITIES AND DIMENSIONS, FABRIC COORDINATING WORK WITH OTHER TR PERFORMANCE OF THE WORK	ONFIRMING AND CORRELATING A ATTON PROCESSES AND TECHNIOU	ALI I
	Gayle Sturdivant, SDS			
	Joseph Rasmussen, SDS			

#### **Review Comments:**

- On the transmittal page, the Description of Item Submitted should be corrected to "Emergency Response Plan".
- 2. CMP outlines more specific guidelines in regard to emergency contacts. These guidelines include contacting the State Park Ranger.

## SOUTHERN DELIVERY SYSTEM PDC1B

## **Emergency Preparedness Plan**

#### **Confined Space Procedure**

a. For this project Garney Construction will follow our confined space procedures as outlined in the Garney ZAP Safety Manual with the following project specific additions.

#### **Confined Space Classifications**

- a. Non Permitted Spaces
  - 1. Newly constructed Vaults and Precast Manholes
- b. Permitted Structures
  - 1. Access inside all lengths of pipe from an access.

#### **Permitted Confined Space**

#### **Acceptable Entry Conditions**

- 1. Pre-entry testing will be performed before entry is authorized. If conditions are acceptable, monitoring will be continuous in the working
- 2. Positive ventilation will be in place prior to entry
- 3. The Permit shall be completed and all conditions of the permit shall be met prior to entry.
- 4. All individuals involved with the entry shall review communication and emergency procedures.
- 5. All entrants shall verify self rescue equipment is in working order.

#### **Permits**

1. Garney and its subcontractor will use the attached PERMIT for permitable confined spaces on this project.

#### Self Rescue

Prior to entry all entrants shall be equipped and trained in the use of a self 1. rescue pack.

#### Offsite Rescue

- 1. For this project Garney will use offsite emergency services for confined space rescue. Garney has made arrangements with the following emergency services for these rescue operations should they be necessary. CITY OF PUEBLO AND FORT CARSON EMERGENCY - HEAVY RESCUE In the case of the type of emergency the caller shall contact 911 and request the CITY OF PUEBLO HEAVY RESCURE UNIT for a Confined Space and Trench Rescue.
- 2. Attendants are not allowed to perform rescue operations. Should rescue services be required the attendant shall contact the emergency services through the 911 System. The Attendant shall inform the 911 operator that the above noted emergency services are aware of the site conditions and capable of making the rescue.

#### Communication

- 1. Communication will be maintained between the attendant and entrants at all times through the following methods.
  - a. Primary Verbal Communication
  - b. Secondary Horn Notifications
    - i. 3 short horn burst represent an emergency requiring rescue or for all entrants to immediately evacuate the space.

#### Ventilation

1. Positive ventilation will be maintained at all time through the use of fans located at the access man ways or entry points.

### RWP PDC1B Fermit Summary

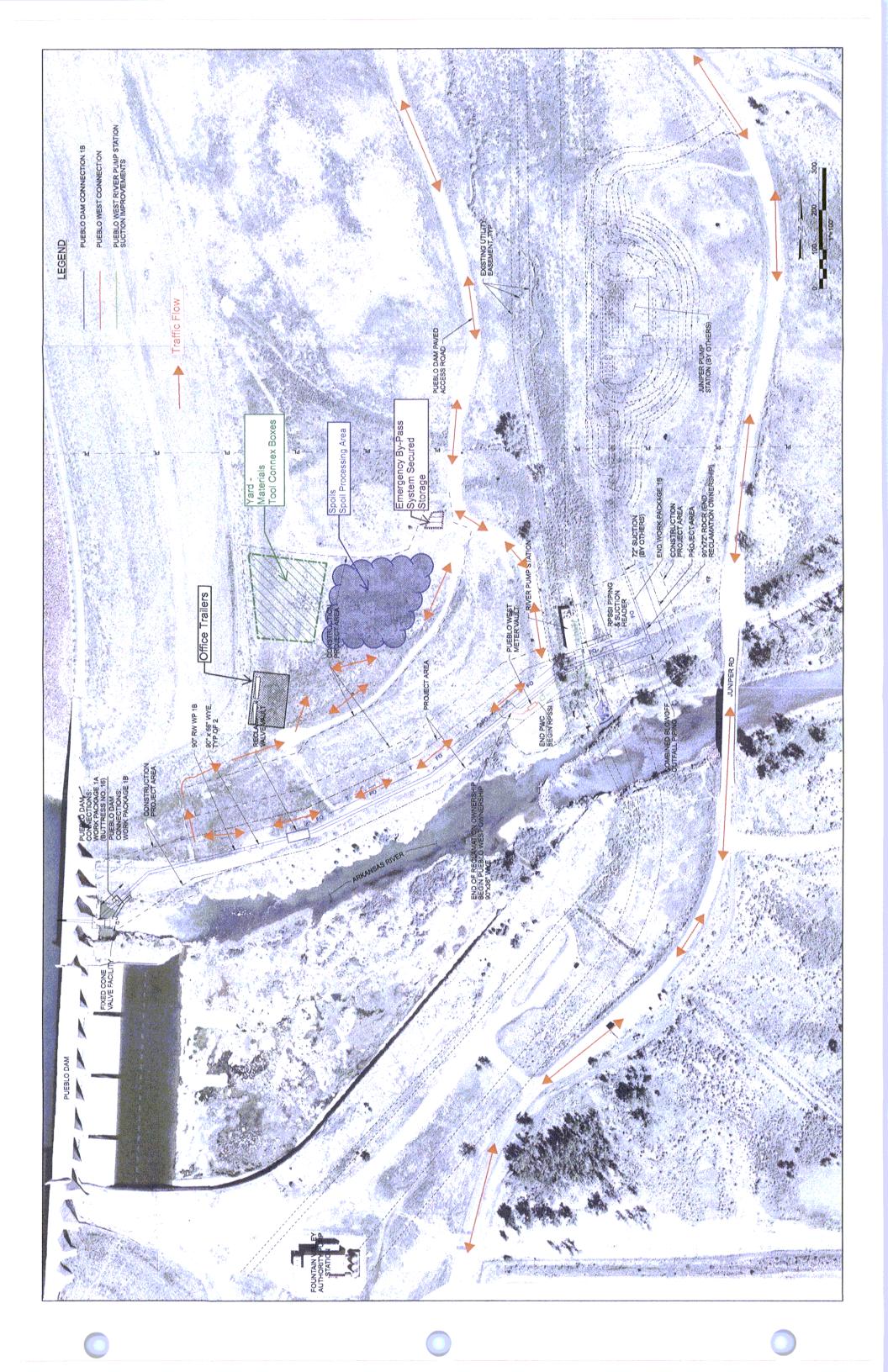
		CONTRACTOR OBTAINED PERMITS		
Issuing Agency	Permit	Description Site-specific permit issued by Pueblo Dam Bureau of Reclamation	Status	Permittee
United States - Bureau o	Special Work Permit	(BOR) office which allows for special work and specific construction activities and processes on BOR land. Issued following issuance of Special Use Permit.	Pending Contractor Submittal	Contractor
Colorado Department of Public Health and Environment (CDPHE)	APEN and Land Development General Construction Permit	Authorizes construction air emissions for land development projects >25 acres or earth moving operations longer than 6 months. Required for all construction activities.  Checking the "Request Coverage Under General Permit" box on the APEN and Application for Construction Permit application allows construction to begin under the 'General Construction Permit for Land Development Projects' Operating Terms and Conditions as soon as the application is received by CDPHE.	Obtained (Received by CDPHE 6/18/13)	Contractor
Colorado Department of Public Health and Environment (CDPHE)	Construction Stormwater	Authorizes the discharge of stormwater runoff from construction sites >1 acre. Requires the development and implementation of a Stormwater Management Plan (SWMP). Required for all construction activities.  Application due to CDPHE at least 10 calendar days prior to commencement of construction activities with certification that the SWMP is complete.	Obtained (Permit No. COR03G746 issued 05/24/13)	Contractor
Colorado Department of Public Health and Environment (CDPHE)	Construction Dewatering	Authorizes the discharge of groundwater and stormwater from excavation sites into State waters.  Application due to CDPHE at least 30 days prior to the anticipated date of first discharge.	Obtained (Permit No. COG074445 issued 06/14/13)	Contractor
Colorado Department of Public Health and Environment (CDPHE)	Hydrostatic Testing of Pipelines, Tanks, and Similar Vessels	Authorizes the discharge of process generated wastewater effluent to ground and/or surface waters of the State of Colorado.  Application due to CDPHE at least 30 days prior to the anticipated date of discharge.	Pending Contractor Submittal	Contractor
Colorado Department of Transportation (CDOT)	Transport Permit	A transportation permit from CDOT Access Management is required for all wide and heavy loads (oversized and overweight).	As Needed	Contractor
		UTILITIES OBTAINED PERMITS		
Issuing Agency	Permit	Description	Status	Permittee
United States - Bureau of Reclamation	Record of Decision	ROD issued and approved for the SDS Final Environmental Impact Statement in March 2009; contains various conditions associated with the construction and operation of the SDS Project. Applicable conditions are included in the Construction Documents Specifications.	Complete	Owner
United States - Bureau of Reclamation	Special Use Permit	Site-specific permit issued which allows for work on Bureau of Reclamation land in accordance with approved 299 application.  Requires submittal and approval of Contractor Construction Management Plan (CMP) prior to permit issuance.	In Process	Owner
United States - Bureau of Reclamation	Long-Term Occupancy Land Use Agreement	Grants an easement for construction activities on Bureau of Reclamation land.	In Process	Owner
United States - Bureau of Reclamation	Letter of Consent Approval	Master consent agreement for construction activities conducted within or on the Fountain Valley Authority (FVA) easement (crossing and encroachment of the FVA conduit).	Complete	Owner
Colorado Department of Natural Resources - Division of Parks and Outdoor Recreation	Memorandum of Understanding	Authorizes work on DPOR managed land within Lake Pueblo State Park. MOU issued on April 4, 2011.	Complete	Owner
Pueblo County	1041 Permit	For development of a designated area of public interest; designates land use. Required for Proposed Action components in unincorporated Pueblo County.  Permit obtained by UTILITIES in April 2009, which contains 30 individual terms and conditions, along with 41 separate mitigation conditions which must be adhered to.	Complete	Owner
Pueblo County	Flood Hazard Area Development Permit	Establishment of any structure within the area designated as a "special flood hazard area" requires a permit.	In Process	Owner
United States Army Corps of Engineers	Nationwide Permit (NWP)	Permitting requirements for specific specified activities.	Pending Utilities Initiation	Owner
United States Army Corps of Engineers	Clean Water Act 404 Permit	Project components that result in dredge or fill of Waters of the U.S. require authorization. Permit issued for the entire length of SDS construction area in May 2010.	Complete	Owner
Colorado Department of Public Health and Environment	401 Certification	State certification required for all individual Section 404 permits. Certification was issued for the entire length of the SDS construction area in April 2010.	Complete	Owner
Colorado Division of Wildlife	Wildlife Survey	A wildlife survey is to be completed for the alignment area with any pertinent information included in the Construction Documents.	Complete	Owner
United States - Bureau of Reclamation		A vegetation survey is to be completed and information included in the Construction Documents and Environmental Constraints Map.	Complete	Owner
United States - Bureau of Reclamation		Section 106 Consultation and Class III Pedestrian survey required on all Bureau of Reclamation property and potentially for entire project. No known cultural resources identified in area of the alignment.	Complete	Owner
United States Fish and Wildlife Service	Nesting Bird Surveys	Nesting bird surveys to be conducted 6 weeks, 3 weeks and 1 week prior to the scheduled commencement of construction activities.	Pending Utilities Completion	Owner

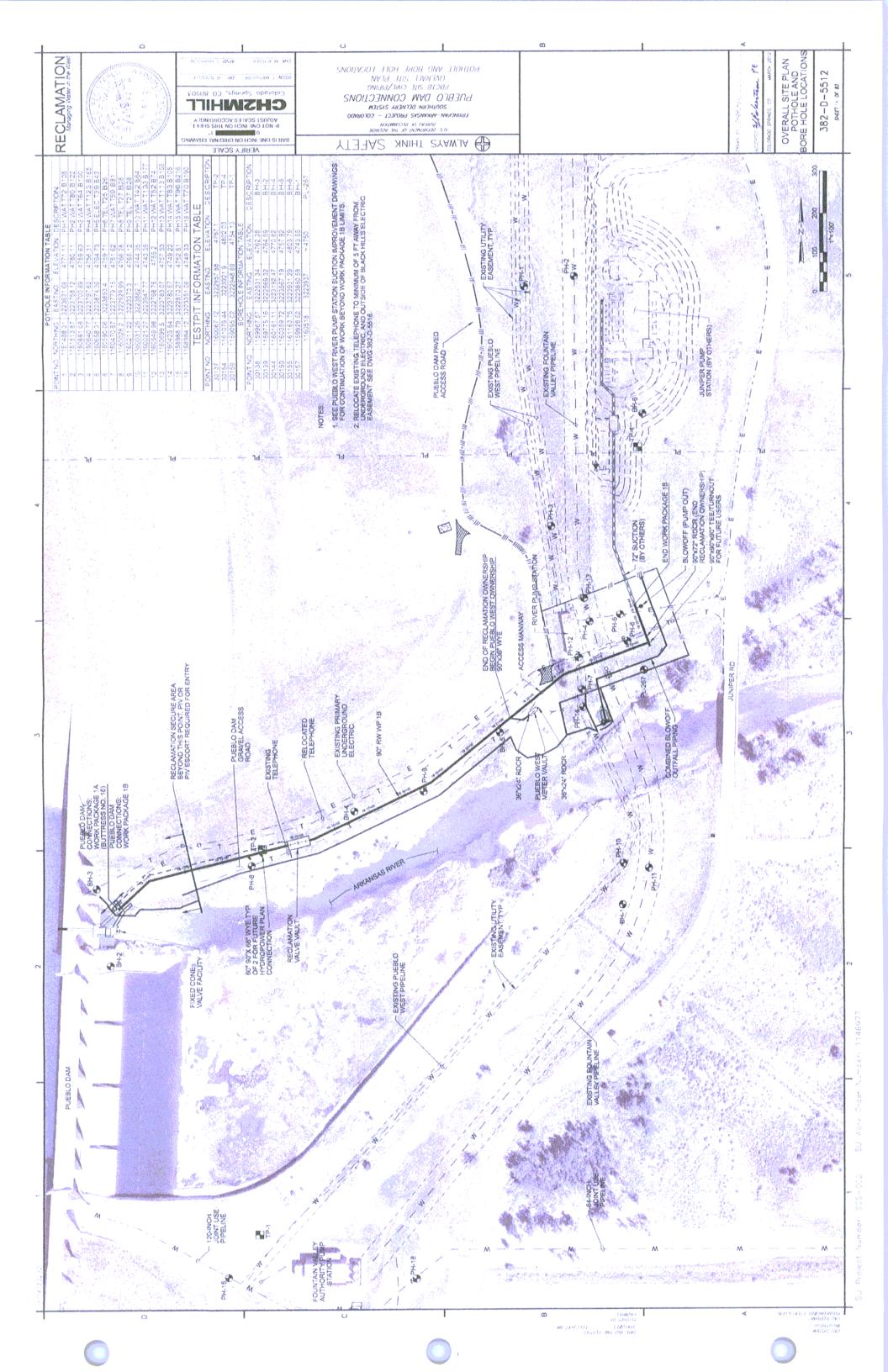


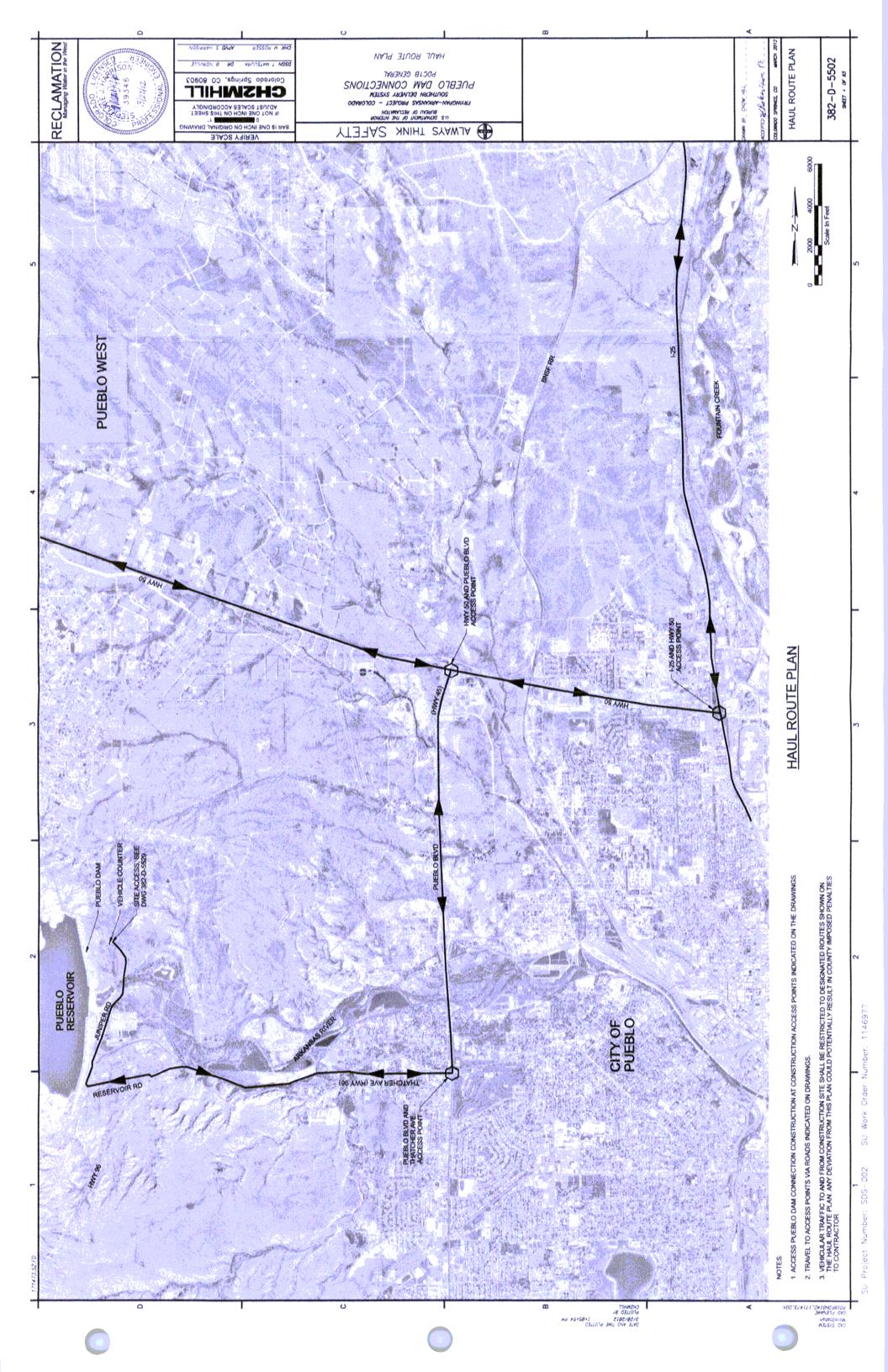
# SDS - PDC1B/PWC/RPSSI

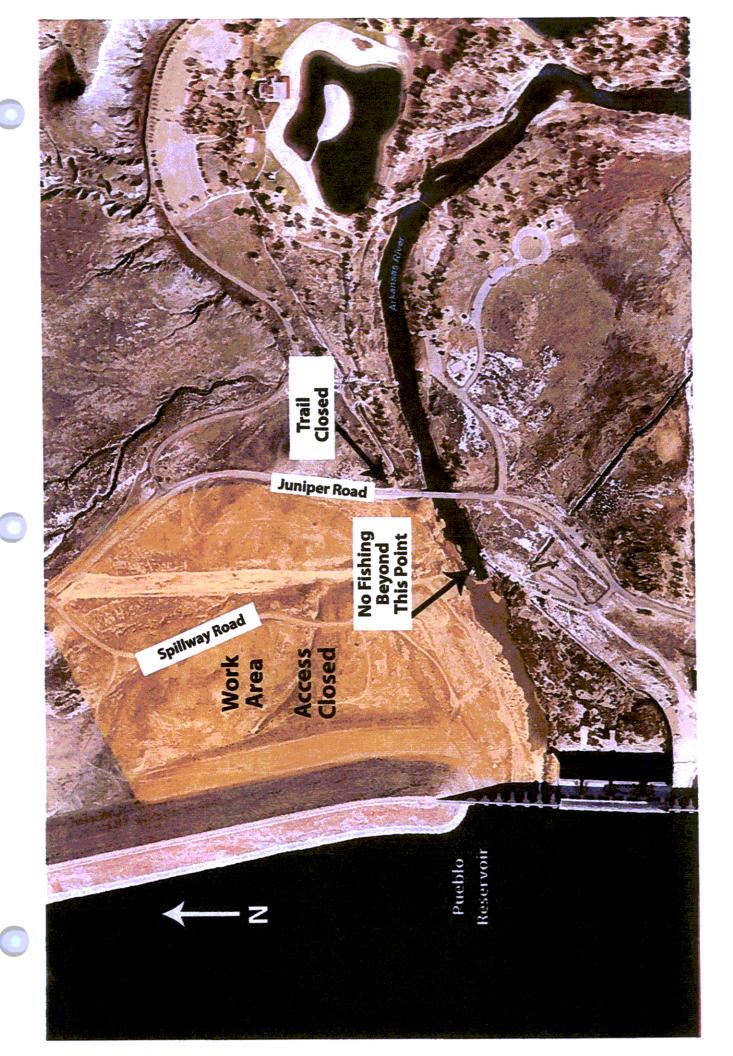
Three Week Look Ahead Schedule

Three Week Date:	Three Week Look Ahead Schedule  Date: August 1, 2013																i.						
					lł				L	1	ŀ	August				ŀ							
		THUR	FRI	SAT	SUN	MON	UES V	MON TUES WED THUR	IUR FRI	સ SAT	T SUN	Q N	Z TUE	WED	₹	FR	SAT	SUN	MOM	TUE.	WED THUR	HUR	몺
	Activity	8/1	8/2	8/3	8/4	8/2	9/8	8/7 8	8/8	9 8/10	0 8/11	1 8/12	2 8/13	8/14	8/15	8/16	8/17	8/18	8/19	8/20	8/21	8/22	8/23
A5030	Notice to Proceed	×					7.																
A1020	Mobilization & Facilities Setup					×	×	×	×			×	×	×	×	×							
A1020	Survey Limit of Construction		×			×																	
A1020	Pre-Existing Condition Assessment Photos		×			×	×	-		-													
A3030	Install Stabilization Construction Entrances, Silt Fence, Rock Socks & Concrete Washout								×			×	×	×	×	×							1
A3150	Install Work Limits Fencing - Orange Safety Fence								×			×	×	×	×	×							
A3160	Install Work Limits Chainlink Fence								×			×	×	×	×	×			1				
A3170	Install Work Limits Preparation														×	×			×	×	×	×	×
A4040	Setup Temporary Bypass Pumping						,	, .				×	×	×	×								
A4060	Test Bypass Pumping Prior to Starting Tie-In Work														×	×			×			•	
A3010	Rock Trench 24" RPSSI to 24"Flow Balancing Vault																		×	×	×	×	×
			1																				
	NOTES LCOMMENTS						OTHE	ER ITEM	40														
			NO CONTRACTOR DE																				











# CONSTRUCTION UPDATE Southern Delivery System

## SOUTHERN DELIVERY SYSTEM

P.O. Box 1103, MC 930 Colorado Springs, CO 80947

Information and Construction Hotline: 885-SDS-4YOU or 855-737-4968

E-Mail: <a href="mailto:sdsinfo@csu.org">sdsinfo@csu.org</a>
Website: <a href="mailto:www.sdswater.org">www.sdswater.org</a>





#### **State Park Area Construction Under Way**

Construction is under way on the Southern Delivery System (SDS), including at Pueblo Dam where the project begins. SDS is a regional project to transport water from the Arkansas River to the city of Colorado Springs, Pueblo West Metropolitan District (PWMD), the city of Fountain, and Security Water District.

Park visitors are asked to keep outside areas marked with construction fence, and comply with signs advising recreationalists about the closure boundaries. For your safety, please be careful and watch for fencing, signs, and construction activity including workers using heavy equipment. For your convenience, refer to the map below that shows construction areas.

Special care is being taken to minimize effects on park users and use environmentally responsible construction practices to preserve watershed quality. Construction is closely coordinated with the City of Pueblo, Colorado Parks and Wildlife, Pueblo West, and the U.S. Bureau of Reclamation to ensure these agencies and the public are kept informed about work activities.

Thank you for your patience during construction.

#### **Arkansas River Safety Restrictions**

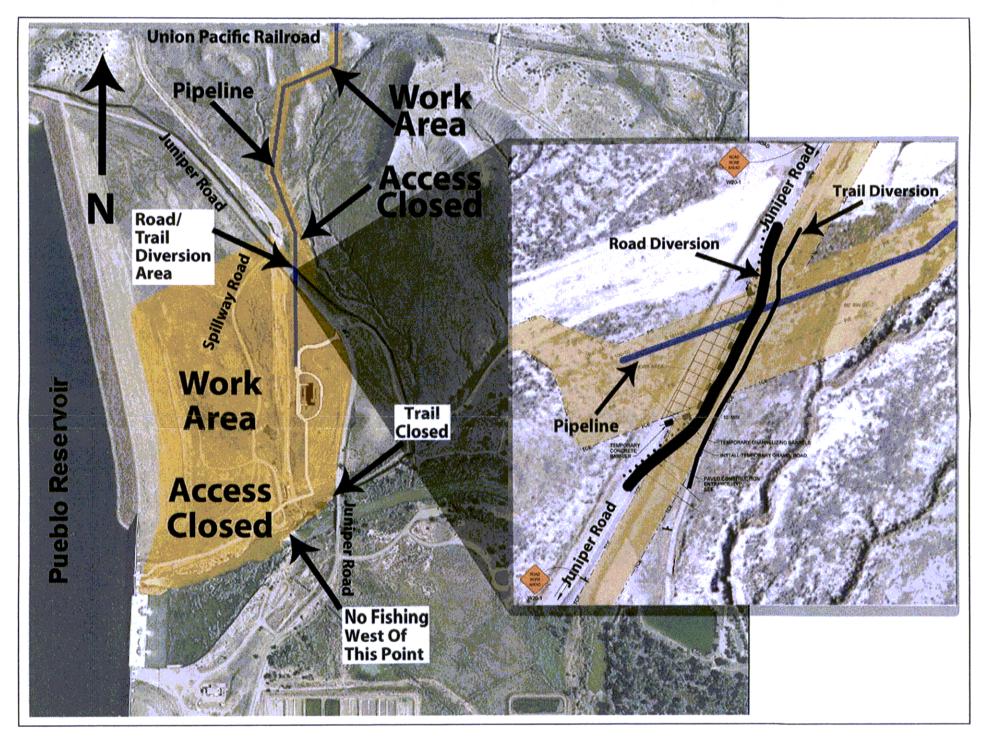
To keep the public safe during construction, river and trail access is closed on the north and south shores of the river near the Juniper Road bridge upstream to the face of the dam.

Limited river access and trail closures began in May 2011 and could last into 2013. Activities in the area include: construction of an outlet works and diversion structure at the north face of the dam (completed July 2012), construction of a pipeline connecting the structure to the PWMD and SDS, and construction of the Juniper Pump Station north of the existing Pueblo West Pump Station along Juniper Road.

#### **Juniper and Spillway Roads Safety Restrictions**

To keep the public safe during construction, certain areas in the vicinity of Juniper and Spillway roads, as well as through the Union Pacific Railroad area, are restricted. Please obey posted areas marking the project boundaries.

Restrictions began in June 2012 and could last into 2013. Juniper Road and the bike trail along the road will be detoured during the heaviest construction, and park users should use caution in the area. Be aware of your surroundings, as the hilly terrain could make it challenging to see construction fencing and safety signage from a distance.

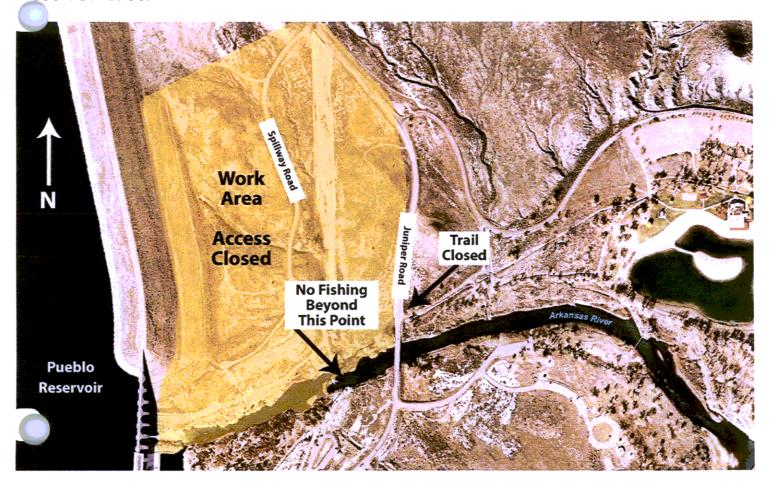


# **CAUTION**

#### WATER TESTING AT PUEBLO DAM; June 19, 20 & 26

Park users downstream of Pueblo Dam on the Arkansas River should use caution **June 19, 20 and 26** during water release testing from the dam. Water levels could fluctuate during testing, and park users should be aware of the changing river conditions.

Flow testing will occur for brief periods throughout each day. To allow workers to safely measure flows, the bike trail running across the Juniper Road bridge at the river will be closed during testing. Work areas near trails and roadways will be clearly marked with signs. Safety personnel will be available in the area during testing. For information, call 855-737-4968.





June 27, 2013

Attn: Brad Henley Colorado Parks and Wildlife 610 Pueblo Reservoir Rd Pueblo, CO 81005

Parcel Ref: 600000058

Dear Mr. Henley:

Colorado Springs Utilities is preparing to begin construction on the Pueblo Dam Connection 1B portion of the Southern Delivery System (SDS). We are committed to working with our project neighbors throughout this construction process to keep you informed about our activities. We want to make you aware that as soon as August 1, you can expect to see new construction activities in the Pueblo Dam Connection area. The initiation of these activities will constitute commencement of construction for that project on the property.

Because our presence on the property is quickly approaching, I wanted to take this opportunity to give you a better idea of what to expect during construction. Some of the first activities you may expect to see will be survey activity and installation of environmental controls.

As part of this new activity, pipeline ranging in diameter from 90-inch down to 72-inch will be installed leading from the completed Pueblo Dam Connection 1A project to the Juniper Pump Station site.

Following a competitive bidding process, Colorado Springs Utilities has selected Garney Construction to build the connection.

We strive to be a good neighbor, and we're committed to working with you during construction to answer questions and address concerns you might have. We understand that these activities may be disruptive. Our aim is to limit these inconveniences, keep you informed about our activities, and be there when you need us.

Safety is our top priority. Heavy equipment, deep excavations, and work site hazards will exist at the worksite and nearby. Hazards will be clearly marked with signs, and/or delineated with fencing as safety measures to protect public safety. We are committed to keep access to your facilities unobstructed. You, and staff under your direction, can help us maintain a safe work area by keeping away from potentially hazardous areas and collaborating with our staff when your access is needed. Doing so will not only keep you, staff under your direction, the general public, and our workers safe, but will help the project move more swiftly.











We are committed to keeping you informed throughout the process. Please coordinate activities with our project manager for the site Joseph Rasmussen at 719-491-2084. Also we have dedicated two people to answer your questions and address any concerns you or the general public may have. You can reach our Construction Facilitators, David Marciniak and Margaret Radford, by calling our SDS Construction Hotline at **855-SDS-4YOU** (737-4968).

If you have any questions or concerns, please don't hesitate to call.

For more project information, visit www.sdswater.org.

Sincerely,

Keith Riley

Colorado Springs Utilities











June 27, 2013

Attn: Dan Higgins Pueblo West Metro District PO Box 7005 Pueblo West, CO 81007

Parcel Ref: 600000058

Dear Mr. Higgins:

Colorado Springs Utilities is preparing to begin construction on the Pueblo Dam Connection 1B portion of the Southern Delivery System (SDS). We are committed to working with our project neighbors throughout this construction process to keep you informed about our activities. We want to make you aware that as soon as August 1, you can expect to see new construction activities in the Pueblo Dam Connection area. The initiation of these activities will constitute commencement of construction for that project on the property.

Because our presence on the property is quickly approaching, I wanted to take this opportunity to give you a better idea of what to expect during construction. Some of the first activities you may expect to see will be survey activity and installation of environmental controls.

As part of this new activity, pipeline ranging in diameter from 90-inch down to 72-inch will be installed leading from the completed Pueblo Dam Connection 1A project to the Juniper Pump Station site.

Following a competitive bidding process, Colorado Springs Utilities has selected Garney Construction to build the connection.

We strive to be a good neighbor, and we're committed to working with you during construction to answer questions and address concerns you might have. We understand that these activities may be disruptive. Our aim is to limit these inconveniences, keep you informed about our activities, and be there when you need us.

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If you have any questions or concerns, please don't hesitate to call.

For more project information, visit www.sdswater.org.

Sincerely,

Keith Riley

Colorado Springs Utilities











June 27, 2013

Attn: Eric Spain Fountain Valley Authority 13250 Ray Nixon Rd Fountain, CO 80817

Parcel Ref: 600000058

Dear Mr. Spain:

Colorado Springs Utilities is preparing to begin construction on the Pueblo Dam Connection 1B portion of the Southern Delivery System (SDS). We are committed to working with our project neighbors throughout this construction process to keep you informed about our activities. We want to make you aware that as soon as August 1, you can expect to see new construction activities in the Pueblo Dam Connection area. The initiation of these activities will constitute commencement of construction for that project on the property.

Because our presence on the property is quickly approaching, I wanted to take this opportunity to give you a better idea of what to expect during construction. Some of the first activities you may expect to see will be survey activity and installation of environmental controls.

As part of this new activity, pipeline ranging in diameter from 90-inch down to 72-inch will be installed leading from the completed Pueblo Dam Connection 1A project to the Juniper Pump Station site.

Following a competitive bidding process, Colorado Springs Utilities has selected Garney Construction to build the connection.

We strive to be a good neighbor, and we're committed to working with you during construction to answer questions and address concerns you might have. We understand that these activities may be disruptive. Our aim is to limit these inconveniences, keep you informed about our activities, and be there when you need us.

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We are committed to keeping you informed throughout the process. Please coordinate activities with our project manager for the site Joseph Rasmussen at 719-491-2084. Also we have dedicated two people to answer your questions and address any concerns you or the general public may have. You can reach our Construction Facilitators, David Marciniak and Margaret Radford, by calling our SDS Construction Hotline at **855-SDS-4YOU** (737-4968).

If you have any questions or concerns, please don't hesitate to call.

For more project information, visit www.sdswater.org.

Sincerely,

Keith Riley

Colorado Springs Utilities











June 27, 2013

Attn: Roy Vaughn
US BOR – Pueblo Field Office
610 Pueblo Reservoir Rd
Pueblo, CO 81005

Parcel Ref: 600000058

Dear Mr. Vaughn:

Colorado Springs Utilities is preparing to begin construction on the Pueblo Dam Connection 1B portion of the Southern Delivery System (SDS). We are committed to working with our project neighbors throughout this construction process to keep you informed about our activities. We want to make you aware that as soon as August 1, you can expect to see new construction activities in the Pueblo Dam Connection area. The initiation of these activities will constitute commencement of construction for that project on the property.

Because our presence on the property is quickly approaching, I wanted to take this opportunity to give you a better idea of what to expect during construction. Some of the first activities you may expect to see will be survey activity and installation of environmental controls.

As part of this new activity, pipeline ranging in diameter from 90-inch down to 72-inch will be installed leading from the completed Pueblo Dam Connection 1A project to the Juniper Pump Station site.

Following a competitive bidding process, Colorado Springs Utilities has selected Garney Construction to build the connection.

We strive to be a good neighbor, and we're committed to working with you during construction to answer questions and address concerns you might have. We understand that these activities may be disruptive. Our aim is to limit these inconveniences, keep you informed about our activities, and be there when you need us.

Safety is our top priority. Heavy equipment, deep excavations, and work site hazards will exist at the worksite and nearby. Hazards will be clearly marked with signs, and/or delineated with fencing as safety measures to protect public safety. We are committed to keep access to your facilities unobstructed. You, and staff under your direction, can help us maintain a safe work area by keeping away from potentially hazardous areas and collaborating with our staff when your access is needed. Doing so will not only keep you, staff under your direction, the general public, and our workers safe, but will help the project move more swiftly.











We are committed to keeping you informed throughout the process. Please coordinate activities with our project manager for the site Joseph Rasmussen at 719-491-2084. Also we have dedicated two people to answer your questions and address any concerns you or the general public may have. You can reach our Construction Facilitators, David Marciniak and Margaret Radford, by calling our SDS Construction Hotline at **855-SDS-4YOU** (737-4968).

If you have any questions or concerns, please don't hesitate to call.

For more project information, visit www.sdswater.org.

Sincerely,

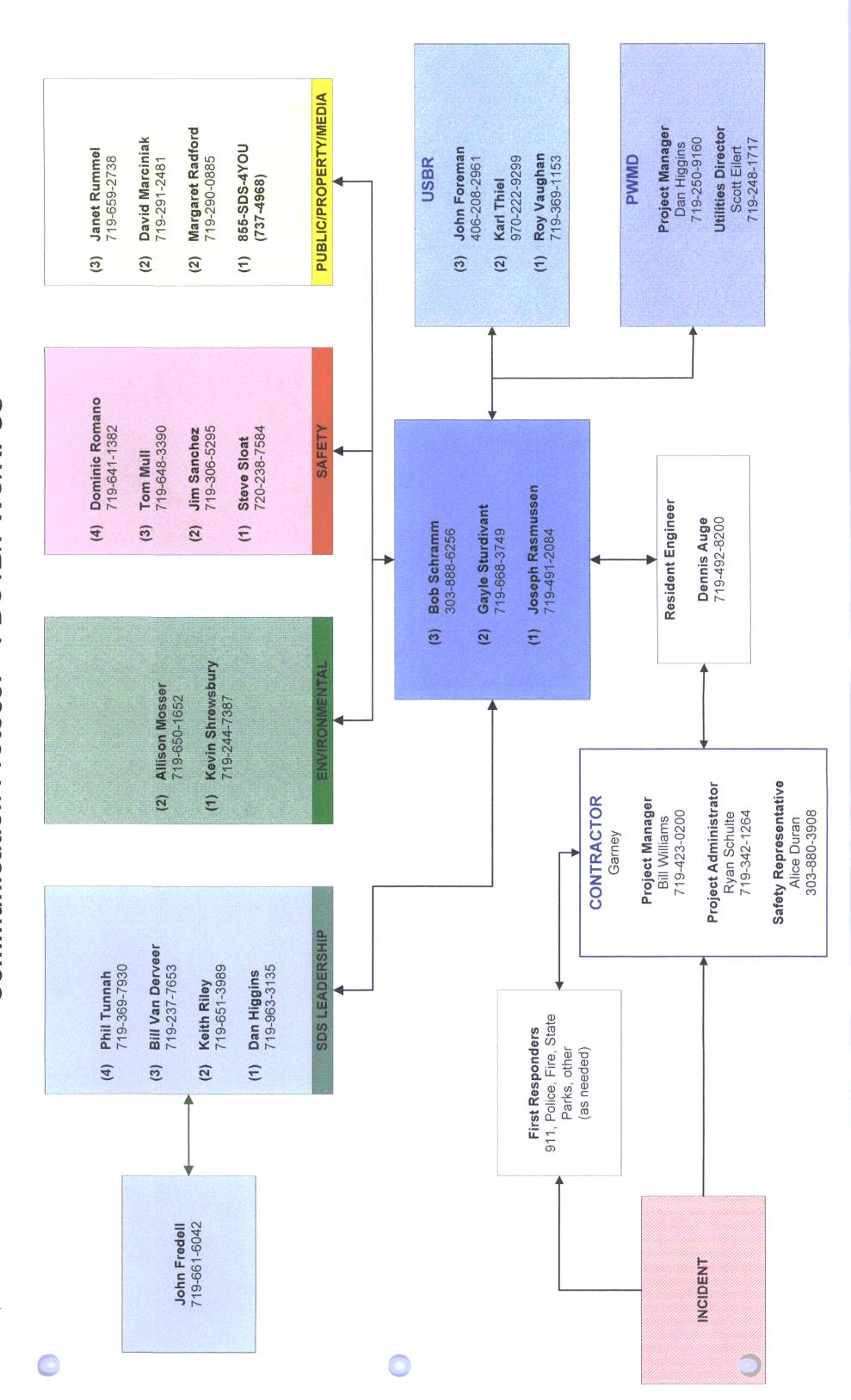
Keith Riley

Colorado Springs Utilities



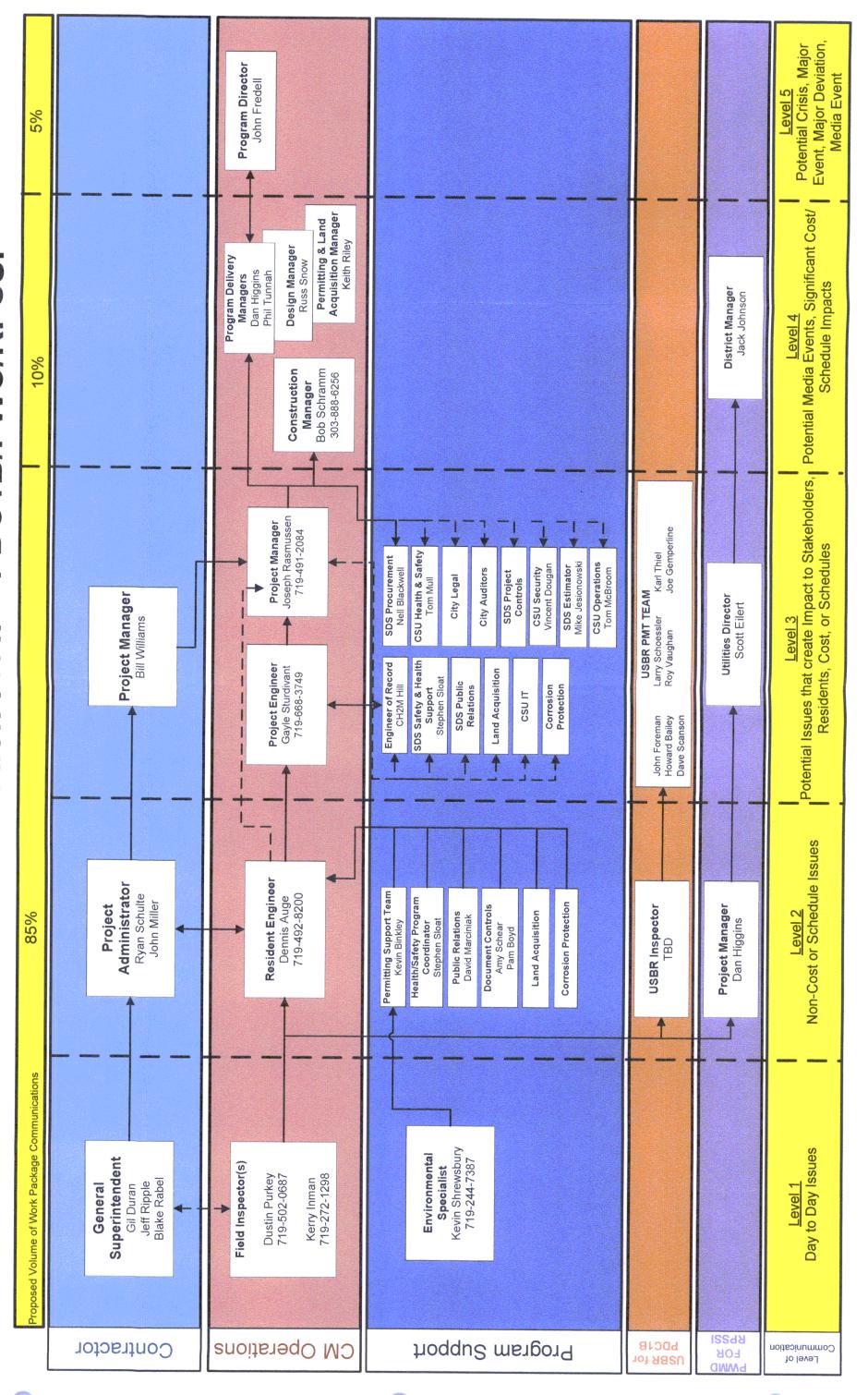






# DRAFT

# of Communication Flow - PDC1B/PWC/RPSSI Levels



#### SDS PDC1B

#### QUALITY CONTROL PLAN ORGANIZATION AND RESPONSIBILITIES

#### CQC Manager: Ryan Schulte ( Project Administrator )

Provide the leadership to establish a culture of quality. Responsibilities include final review of the quality control program, ensuring that the program is being implemented at the job level, assess the quality of subcontractors, suppliers, and vendors and ensure compliance with the requirements of the Quality Control Program. In addition, the CQC Administrator will review the quality documentation and insure any corrective actions are completed, re-inspected and documented.



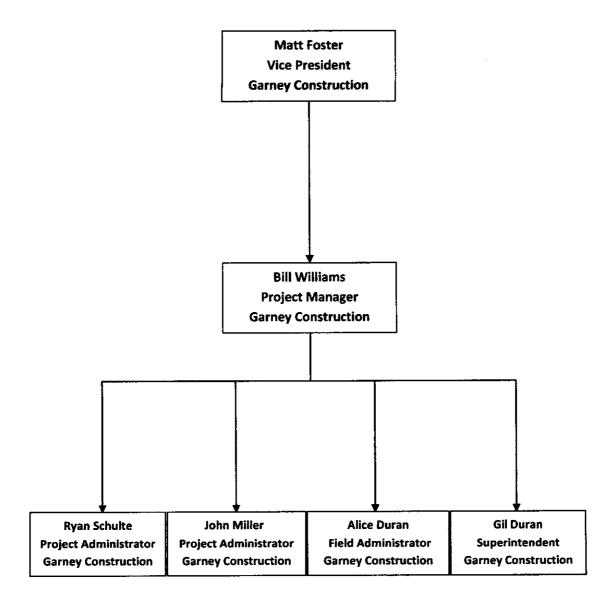
100% Employee Owned

# SDS PDC1B QUALITY CONTROL LETTER OF AUTHORITY

This letter is in effect to describe the responsibilities and delegating sufficient authorities to adequately perform the functions of the CQC System Manager, including authority to stop Work which is not in compliance with the Contract. The individual that possess this authority is Ryan Schulte.

Signed:	Must for		
	Matt Foster	Vice President	

#### **Garney Construction Flow Chart**





#### MATT FOSTER

#### PRINCIPAL-IN-CHARGE

#### Contact Information

Phone: (816) 746-7219 Email: mfoster@garney.com

#### **Career Summary**

Employed by Garney since: 1993 Employed in industry since: 1993

#### **Education**

Kansas State University B.S. in Construction Science and Management May 1993

#### **Affiliations & Certifications**

- NUCA Member
- OSHA Competent Person
- OSHA 10-Hour Trained
- Confined Space Safety Trained
- First Aid and CPR Trained

#### PROFESSIONAL SUMMARY

Matt has responsibility for the organization and management of Garney's pipe operations in the Western United States. He estimates, negotiates, and manages operations for multiple projects throughout this area. These projects include large diameter water and sewer pipelines in varying ground conditions and levels of difficulty. He is also responsible for material approval and procurement, scheduling and tracking performance, and coordination and communication between his project team members. Matt is a tremendous team-builder and pays close attention to safety, quality, and customer satisfaction. He was appointed Senior Project Manager in 2000 and Vice President in 2009.

#### References

Tom RoodeRandy ParksDenver WaterIntegra EngineeringPh: (303) 628-7033Ph: (303) 825-1121 ext. 13

Daniel Rice, P.E.Dan MooreAECOM EngineeringCity of GreeleyPh: (303) 542-4745Ph: (970) 350-9814

#### **INDUSTRY EXPERTISE**

- Conventional open cut underground water and sewer pipeline systems. Particular expertise in large diameter systems and the unique challenges they present.
- Extensive knowledge of varying ground conditions including rock and dewatering.
- Alternate project delivery including CMAR, design-build, and cost plus fee on large projects.

#### **RELEVANT EXPERIENCE**

#### EAST CHERRY CREEK VALLEY WATER & SANITATION DISTRICT - Aurora. Colorado

Northern Water Supply Project Transmission Pipeline

\$51.1 M

Installation of 165,000 LF of 48" steel pipe. Included several creek crossings and extensive dewatering.

#### CITY OF AURORA - Aurora, Colorado

Prairie Waters Project Conveyance System Pipeline

\$32.5 M

Installation of 56,745 LF of 60" mortar-lined steel pipe with more than 6,000 LF located in a right-of-way. Challenges include creek, railroad, and highway crossings, dewatering, and two 72" hand mined tunnels.

#### **UPPER PENINSULA POWER COMPANY – Marquette, Michigan**

McClure Penstock Replacement

\$13.4 M

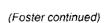
Installation of 13,300 LF of 84" steel penstock pipe. Includes two aerial stream crossings, multiple tie-ins, and several manholes. Includes stringent erosion control measures and environmental protection guidelines.

#### CITY OF LONGMONT - Longmont, Colorado

Raw and Treated Water Pipeline

\$12.7 M

Installation of 56,000 LF of 60" mortar-lined steel pipe. Challenges included extensive street work, creek and railroad crossings, dewatering, and two 72" hand mined tunnels.





#### CITY OF GREELEY - Greeley, Colorado

#### Bellvue Transmission Pipeline - Mulberry Segment

\$11.6 M

Installation of 23,000 LF of 60" steel pipe crossing industrial property. Included numerous long tunnels.

#### CITY OF GREELEY - Greeley, Colorado

#### Bellvue Transmission Pipeline - Farmer's Segment

\$10.8 M

Installation of 36,356 LF of 60" welded steel pipe. Included six large irrigation canal crossings.

#### EAST CHERRY CREEK VALLEY WATER & SANITATION DISTRICT - Denver, Colorado

#### Western Water Transmission Pipeline - Willows

\$6.4 M

Installation of 25,000 LF of 48" steel water main. Included several road tunnels and rock excavation.

#### EAST LARIMER & NORTH WELD COUNTY WATER DISTRICTS - Fort Collins, Colorado

#### 42" NEWT 1 Pipeline Project

\$6.0 M

Installation of 24,000 LF of 42" DIP water transmission pipeline. Includes several tie-ins, significant dewatering, a river crossing, and two bores. The pipeline travels through 9,000 LF of wetland areas.

#### CHEYENNE BOARD OF PUBLIC UTILITIES - Cheyenne, Wyoming

#### Southern Water Transmission Line, Phase 1

\$5.0 M

Installation of 15,300 LF of 42" steel pipe. Included multiple large diameter lateral tie-ins, construction of a meter vault, several large precast air release vaults, and a 150 LF bore.

#### CITY OF LARAMIE - Laramie, Wyoming

#### Laramie Transmission Pipeline Project

\$4.4 M

Installation of 16,800 LF of 36" C-905 pipe. Includes a river crossing, dewatering, and bypass pumping.

#### **DUCHESNE COUNTY WATER CONSERVANCY DISTRICT - Duchesne, Utah**

#### Salinity Control Project - Phase II

\$4.2 M

Installation of 19,200 LF of 48" to 66" steel pipe that entailed predominantly rolled groove gasket pipe joints.

#### XCEL ENERGY - Glenwood Springs, Colorado

#### Shoshone Penstock Substantial Repair

\$4.2 M

Installation of a 100" steel liner inside of existing twin 108" penstocks extending down a mountain side on a 45 degree slope with very limited access. Included multiple elbows making the project even more challenging.

#### GREAT RIVER ENERGY - Underwood, North Dakota

#### Circulating Water System and New Circulating Water Return Line

\$3.2 M

Installation of 1,060 LF of 96" and 120" PCCP. Four tie-ins performed during an extremely short timeframe.

#### WESTAR ENERGY - Lawrence, Kansas

#### Lawrence Energy Center Circulating Waterline Replacement

\$2.7 M

Slip lining 1,066 LF of 60" and 72" circulating waterlines with new spiral weld steel pipe.

#### XCEL ENERGY - Telluride, Colorado

#### Ames Elevated Suspended Penstock Replacement

\$2.2 M

Installation of 1,120 LF of 30" steel penstock. A 400 LF section was installed up the side of a steep mountain.



#### **BILL WILLIAMS**

#### PROJECT MANAGER / ESTIMATOR

#### **Career Summary**

Employed by Garney since: 2010 Employed in industry since: 1980

#### Education

University of Southern Colorado B.S. in Civil Engineering Technology, Cum Laude May 1991

#### **Affiliations & Certifications**

- OSHA 10-Hour Trained
- FMI Project Manager Skills College
- SII Construction Schedules

#### PROFESSIONAL SUMMARY

Bill joined Garney in 2010, bringing 20 years of experience in the pipeline industry managing open cut, bored, CIPP lining, and pump station projects throughout the western United States. As Project Manager, Bill works alongside a superintendent where he is responsible for material procurement, project scheduling, project administration, and continuous communication with the project owner and design engineer.

#### References

Russ NicklenRandy ParksColorado Springs UtilitiesIntegra EngineeringPh: (719) 238-2610Ph: (303) 651-0613

Dennis Auge John Snitzmier
Colorado Springs Utilities Black & Veatch
Ph: (307) 745-7366 Ph: (719) 331-4699

#### RELEVANT EXPERIENCE

#### NORTHERN COLORADO WATER CONSERVANCY DISTRICT - Fort Collins, Colorado

#### Pleasant Valley Pipeline Project

\$10.3 M

Installation of 26,100 LF of 67" welded steel pipe including a river crossing and a complete turnout structure. Included 90 LF of 78" bored casing.

#### LEWIS & CLARK WATER DISTRICT - Vermillion, South Dakota

#### Lewis & Clark Raw Water Pipeline, Segments 2 and 3

\$9.0 M

Installation of 34,565 LF of 54" steel raw waterline, multiple manholes, connections, and associated appurtenances, 665 LF of horizontal boring, and two irrigation canal crossings.

#### COLORADO SPRINGS UTILITIES - Colorado Springs, Colorado

#### Southwest Water Pipeline, Phase 5

\$8.2 M

Installation of 17,500 LF of 36" and 48" dual steel waterline in both rural and metropolitan areas.

#### CITY OF WESTMINSTER - Westminster, Colorado

#### **Reclaimed Water Distribution**

\$7.5 M

Installation of 48,000 LF of 16" to 48" DIP with extensive road reconstruction.

#### COLORADO SPRINGS UTILITIES - Colorado Springs, Colorado

#### CSU Major and Minor Sanitary Sewer Pipeline Repairs

\$5.0 M

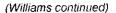
Task order driven projects under an umbrella contract to repair the sanitary sewer, drainage, and erosion problems along creeks, and other drainage ways throughout the city.

#### COLORADO SPRINGS UTILITIES - Colorado Springs, Colorado

#### Clear Spring Ranch Sludge Pipeline, Segment D

\$4.1 M

Installation of 29,200 LF of 14" FRP with extensive asphalt paving and restoration. Included 8,100 LF of pipe installed along and through a BNSF railroad right-of-way.





#### **DENVER METRO WASTEWATER DISTRICT – Littleton, Colorado**

#### Sanderson Gulch Interceptor

\$4.1 M

Installation of 12,500 LF of 18" to 48" sanitary sewer line, including diversion structures and bypass pumping.

#### PUEBLO WEST METRO DISTRICT - Pueblo West, Colorado

#### Pueblo West 36" Raw Waterline

\$3.6 M

Installation of 20,700 LF of 36" DIP with 21,000 LF of 1 ½" fiber optic conduit. Included 160 LF of 54" bored casing, extensive rock excavation, multiple manholes, all within city streets.

#### COLORADO SPRINGS UTILITIES - Colorado Springs, Colorado

#### Water Mains in Powers Boulevard, Phase IV

\$2.1 M

Installation of 5,417 LF of 54" steel waterline including blowoff assemblies, air vacs, and connections.

#### COLORADO SPRINGS UTILITIES & CITY OF AURORA - Divide, Colorado

#### Twin Rock Pump Station, Phases I and II

\$822 K

Installation of 72" steel exterior intake piping, 67" steel discharge piping, 6" fire line, 48" welded steel waterline, a flow metering structure, pump pads, and all appurtenances for the pump station.

#### COLORADO SPRINGS UTILITIES & CITY OF AURORA - Buena Vista, Colorado

#### Goddard Tunnel Pipeline Rehabilitation

\$647 K

Rehabilitation of 80 LF of existing 66" PCCP by slip lining a 62" welded steel pipe liner. The sections to be rehabilitated lie within a 5,900 LF long tunnel.

#### CITY OF COLORADO SPRINGS - Colorado Springs, Colorado

#### Power Point 54" Pipeline

\$551 K

Installation of 2,400 LF of 54" steel waterline, blowoff assemblies, air vacs, and several connections.

#### COLORADO SPRINGS UTILITIES & CITY OF AURORA - Hartzel, Colorado

#### Hartzel Emergency Repair

\$314 K

Emergency repairs to 66" PCCP which included the removal of existing pipe damaged by lightning and replacement with steel CMTx tape-coated pipe. Included connections to existing pipe.



#### RYAN SCHULTE

#### PROJECT ADMINISTRATOR

#### **Career Summary**

Employed by Garney since: 2008 Employed in industry since: 2008

#### Education

Colorado State University B.S. in Construction Management May 2009

#### **Affiliations & Certifications**

- OSHA Competent Person
- Confined Space Safety Trained

#### PROFESSIONAL SUMMARY

Ryan started with Garney as an intern in 2008 and participated on the Southern Water Transmission Line, Phase 1 project, a 42" transmission line feeding the City of Cheyenne, Wyoming. As the only onsite manager for Garney, Ryan gained an extensive amount of industry knowledge and experience, performing various duties including handling submittals, procuring materials, site preparation, subcontractor management, scheduling deliveries, preparing project schedules, leading progress meetings, and assisting the superintendent. He was also a Project Administrator on the City of Aurora's Prairie Waters North Campus project, where he performed similar duties. With this project, Ryan also gained experience by organizing dewatering efforts, including deep wells and well point systems. Ryan assists in coordinating work with Garney field personnel, subcontractors, site inspectors, engineers, and owner representatives and has been a vital asset to his projects. Ryan has great planning and organizational skills and is able to find fast, effective solutions to any problems that may arise.

#### References

Warren Wallace Vince Cimino

Aspen Banner Engineering Public Service Company of New Mexico

Ph: (307) 745-7366 Ph: (505) 598-7611

Jack Scott Darwin Williams, P.E. Cheyenne Board of Public UtilitiesELCO Water District Ph: (307) 637-6471 Ph: (970) 493-2044

#### RELEVANT EXPERIENCE

CITY OF AURORA - Aurora, Colorado

Prairie Waters Project Conveyance System Pipeline

\$31.1 M

Installation of 75,102 LF of 60" and 17,158 LF of 30" mortar-lined steel pipe with majority of pipeline in the Smith Road right-of-way. Also included 72" hand-mined tunnels, seven 60" butterfly valves and structures, 27 buried access manways and air release and blow off assemblies.

#### COLORADO SPRINGS UTILITIES - Pueblo West, Colorado

Southern Delivery Raw Water Pipeline Segment S2

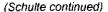
\$26.9 M

Installation of 33,865 LF of 66" cement mortar-lined and polyurethane-coated welded steel pipe. The project also includes 355 LF of cased crossing by tunneling for the 66" steel waterline, five combination air and vacuum valve assembly vaults, six blowoff assemblies, 70 LF of open cut casing, asphalt pavement replacement, traffic control, and erosion and sediment control.

#### Southern Delivery Raw Water Pipeline Segment S4A

\$26.0 M

This segment of the project is broken up into two parts, the West side which consists of 26,980 LF, and the East side consisting of 12,669 LF of 66" cement mortar-lined and polyurethane-coated, spiral welded steel pipe. The West side consists of ten combination air and vacuum valve assembly vaults, eight blow offs, and four buried access manways. The East side consists of two combination air and vacuum valve assembly vaults, two blow offs, and two buried access manways.





#### CITY OF AURORA - Brighton, Colorado

#### Prairie Waters North Campus

\$16.5 M

Installation of 15,670 LF of 10" PVC and 36" steel pipe for well collection lines. Installation of 23,170 LF or 42" and 36" steel pipeline for a conveyance system.

#### PUBLIC SERVICE COMPANY OF NEW MEXICO - Waterflow, New Mexico

#### 42" Ductile Iron Waterline - River Pump station to SIGS's Lake

\$6.4 M

Installation of 25,027 LF of 42" ductile iron waterline and also included the connection of a cast-in-place concrete structure and meter vault, nine air release valve vaults, and six blow off well vaults. There were two jack and bore operations, including bores underneath Hwy 64 and CR 6700, and an open cut crossing of CR 6800.

#### EAST LARIMER & NORTH WELD COUNTY WATER DISTRICTS - Fort Collins, Colorado

#### 42" NEWT 1 Pipeline Project

\$6.2 M

Installation of 24,000 LF of 42" ductile iron water transmission pipeline. Includes several tie-ins, a significant dewatering system, a river crossing, and two bores under a street and railroad. The pipeline travels through 9,000 LF of wetland areas.

#### CITY OF GREELEY - Greeley, Colorado

#### Bellvue Transmission Pipeline - UPRR Segment

\$5.5 M

Installation of 10,038 LF of 60" welded steel pipe and 160 LF of 24" DIP. Included two railroad crossings and a 587 LF bore under two existing buildings.

#### Redwood Street at Vine Drive

\$247 K

Installation of 985 LF of 60" ductile iron water pipeline in a very high utility area with one canal crossing. The project also included bypass pumping and dewatering.

#### CHEYENNE BOARD OF PUBLIC UTILITIES - Cheyenne, Wyoming

#### Southern Water Transmission Main, Phase 1

\$5.0 M

Installation of 33,865 LF of 66" cement mortar-lined and polyurethane-coated welded steel pipe. The project also includes 355 LF of cased crossing by tunneling for the 6" steel waterline, five combination air and vacuum valve assembly vaults, six blow off assemblies, 70 LF of open cut casing, asphalt pavement replacement, traffic control, and erosion and sediment control.

#### COLORADO SPRINGS UTILITIES - Colorado Springs, Colorado

#### Southern Delivery System Finished Water Pipeline Segment FW1

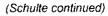
\$4.0 M

Installation of 3,700 LF of parallel 42" and 54" steel waterlines and included many challenges, such as extensive traffic control and having to excavate and expose the ends of an existing bore that was threaded with the 42" pipeline. Both pipelines were installed in a common trench for 2,800 LF.

#### Southern Delivery System Pipeline Segment FW1B

\$3.1 M

Installation of 2,043 LF of 54" and 2,055 LF of 42" cement mortar-lined and polyurethane-coated welded steel dual pipelines. The project also includes a 425 LF cased tunnel crossing for the 54" steel waterline, a 425 LF cased tunnel crossing for the 42" steel waterline, combination air and vacuum valve assembly vaults, construction of a temporary sediment basin, asphalt pavement replacement, traffic control, and erosion and sediment control.





#### **US BUREAU OF RECLAMATION** – Loveland, Colorado

Flatiron Penstocks Recoating and Relining Project

\$1.7 M

Includes manway refurbishment, expansion joint packing removal and replacement, valve seat and seal removal and replacements, installation of flow meters, and electrical upgrades.



### JOHN MILLER PROJECT ENGINEER

\$2.4 M

#### **Career Summary**

Employed by Garney since: 2011 Employed in industry since: 1999

#### **Education**

Colorado State University B.S. in Construction Management, December 2006

#### **Affiliations & Certifications**

- OSHA 10-Hour Trained
- Supervisors Safety Training
- Stormwater for Construction Supervisor Training Certified
- U.S. Army Corps of Engineers Construction Quality Mgmt. for Contractors Certified

#### PROFESSIONAL SUMMARY

John has several years of experience in the water and wastewater industry. He has worked extensively on water and wastewater treatment facilities. John has considerable knowledge of site layout, controls, and document managements. With his combined experience, John is able to provide high standards for quality assurance and quality control and safety on all his projects.

#### References

Jim Miller, P.E.Ben Slater (Retired)Denver WaterJBS Swift & CompanyPh: (720) 289-1434Ph: (970) 590-3592

Blaine Wright Charles Stevens
Schmueser Gordon Meyer City of Liberty, MO
Ph: (970) 379-5538 Ph: (816) 260-3964

#### RELEVANT EXPERIENCE

Westminster Wastewater Treatment Plant Expansion

CITY OF RIFLE - Rifle, Colorado	
Rifle Wastewater Reclamation Facility	\$23.2 M
CITY OF FRUITA – Fruita, Colorado	
	\$22.8 M
Fruita Wastewater Reclamation Facility	\$22.0 141
METRO WASTEWATER RECLAMATION DISTRICT - Denver, Colorado	
PAR 877 Primary Treatment Improvements	\$19.8 M
REPUBLICAN RIVER WATER CONSERVATION DISTRICT - Wray, Colorado	
Republican River Compact Compliance Pipeline	\$13.5 M
NEW DELCHIE DELECTO Colling Coloredo	
NEW BELGIUM BREWERY - Fort Collins, Colorado	****
Wastewater Treatment Facility	\$13.0 M
JBS SWIFT & COMPANY - Greely, Colorado	
Lone Tree Wastewater Treatment Plant	\$8.6 M
CITY OF GREELY - Greely, Colorado	
Greely Water Pollution Control Facility	\$8.0 M
DENVER WATER - Lone Tree, Colorado	
Lone Tree Reservoir Basin No. 2	\$7.5 M
Marston Headworks Improvements	\$351 K
CITY OF WESTMINSTER - Westminster, Colorado	



EAGLE RIVER WATER & SANITATION DISTRICT – Edwards, Colorado

Edwards Drinking Water Facility \$351 K

COLORADO SPRINGS UTILTIES – Breckenridge, Colorado

Upper Blue Dam Crest Improvements \$337 K

Martin Drake Non-Potable Water Meter Vault \$232 K

CITY OF GRAND JUNCTION – Grand Junction, Colorado

Persigo Wash Water Treatment Plant UV Improvements \$249 K



#### **ALICE DURAN**

#### SAFETY & HEALTH REPRESENTATIVE

#### **Career Summary**

Employed by Garney since: 2006 Employed in industry since: 2006 20 years instructing experience

#### Education

Adams State College B.A. in Business Administration and Elementary Special Education University of Virginia Early Childhood Education

#### **Affiliations & Certifications**

- OSHA 10-Hour Trained
- Confined Space Safety Trained
- · First Aid and CPR Trained

#### PROFESSIONAL SUMMARY

As Safety & Health Representative, Alice is in charge of documenting safety records, conducting regular inspections of the job site, monitoring safety continuously, conducting weekly safety meetings, conducting prejob briefings, and assisting the superintendent daily. She has 27 years of construction exposure, and 20 years of instructing experience. She actively participates in translating for the Spanish speaking employees and translated as she took the OSHA 10-hour certification class. She is flexible, helpful, and stresses enforcement of safety guidelines.

#### References

 Stephania Bunka
 Don Dorsey

 Xcel Energy
 BMES Inc.

 Ph: (970) 945-2816
 Ph: (308) 289-3135

John Montgomery Rick Sublette

Golder Associates Mountain Man Welding Ph: (303) 941-3043 Ph: (303) 947-8815

#### RELEVANT EXPERIENCE

#### **UPPER PENINSULA POWER COMPANY - Marquette, Michigan**

#### McClure Penstock Replacement

\$13.4 M

Installation of 13,300 LF of 84" steel penstock pipe. Includes two aerial stream crossings and multiple tieins. Challenges include stringent erosion control measures and environmental protection guidelines.

#### XCEL ENERGY - Glenwood Springs, Colorado

#### Shoshone Penstock Substantial Repair

\$4.1 M

Installation of 515 LF of 100" steel pipe sliplined inside 109" steel riveted pipe 98 years old, up a 45 degree slope. Included 150 CY thrust block and rock anchors.

#### GREAT RIVER ENERGY - Underwood, North Dakota

#### Circulating Water System and New Circulating Water Return Line

\$3.2 M

Installation of 1,060 LF of 96" and 120" PCCP. Four tie-ins performed during an extremely short timeframe.

#### WESTAR ENERGY - Topeka, Kansas

#### Tecumseh Energy Center Circulating Water Pipeline

\$2.7 M

Installation of 1,004 LF of 56" pipe sliplined inside 60" pipe, working under a shutdown of the power plant requiring expedited progress.

#### WESTAR ENERGY - St. Mary's, Kansas

#### <u>Jeffrey Energy Center Unit 3 Circulating Water System</u>

\$1.5 M

Installation of 1,050 LF of 120 PCCP return line. Pipe was installed in depths up to 25 feet, including several sections under high voltage duct banks. Other challenges included rock excavation and dewatering.



## GIL DURAN SUPERINTENDENT

#### **Career Summary**

Employed by Garney since: 1980 Employed in industry since: 1980

#### **Affiliations & Certifications**

- OSHA Competent Person
- OSHA 10-Hour Trained
- Confined Space Safety Trained
- · First Aid and CPR Trained

#### PROFESSIONAL SUMMARY

Gil has worked his way up through Garney's ranks over the past 30 years. He has installed pipe all throughout the United States and has experience with large diameter pipe up to 120." Gil has installed welded steel pipe, PCCP, DIP, HDPE, PVC, and RCP. Gil's dedication, loyalty, and ability to recognize talent in his employees have allowed him to keep a core group of employees together for several years. He and his crew are considered by many to be the best available in the marketplace.

#### References

Ron Jorgensen Juan Rodriguez
Golder Associates AECOM

Ph: (303) 980-0540 Ph: (719) 244-1449

Larry Catalano Randy Parks
City of Aurora Integra Engineering

City of Aurora Integra Engineering Ph: (720) 859-4332 Ph: (303) 951-0613

#### RELEVANT EXPERIENCE

#### EAST CHERRY CREEK VALLEY WATER & SANITATION DISTRICT - Aurora, Colorado

#### Northern Water Supply Project Transmission Pipeline

\$51.1 M

Installation of 165,000 LF of 48" steel pipe. Included a cross country pipeline running from Barr Lake to Smokey Hill Road, 18 trenchless crossings, and 5 major stream crossings.

#### CITY OF AURORA - Aurora, Colorado

#### Prairie Waters Project Conveyance System Pipeline

\$32.5 M

Installation of 56,745 LF of 60" mortar-lined steel pipe with more than 6,000 LF located in a right-of-way. Challenges include creek, railroad, and highway crossings, dewatering, and two 72" hand mined tunnels.

#### CITY OF VIRGINIA BEACH - Emporia, Virginia

#### Lake Gaston Water Supply Project Contract C-2

\$18.3 M

Installation of 87,100 LF of 60" DIP and PCCP. Included 1,400 LF of 96" trenchless crossings.

#### **UPPER PENINSULA POWER COMPANY – Marquette, Michigan**

#### McClure Penstock Replacement

\$13.4 M

Installation of 13,300 LF of 84" steel penstock pipe. Includes two aerial stream crossings and multiple tie-ins. Challenges include stringent erosion control measures and environmental protection guidelines.

#### CITY OF LONGMONT - Longmont, Colorado

#### Raw and Treated Water Pipeline Project

\$12.7 M

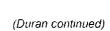
Installation of 17,700 LF of 48" and 54" pipe parallel to a state highway in close proximity to travel lanes. Entailed numerous connections and coordination providing pipelines in and out of Longmont's new WTP.

#### CITY OF GREELEY - Greeley, Colorado

#### Bellvue Transmission Pipeline - Mulberry Segment

\$11.6 M

Installation of 23,000 LF of 60" steel pipe through predominately urban areas.





#### CITY OF GREELEY - Greeley, Colorado

#### Bellvue Transmission Pipeline - Farmer's Segment

\$10.8 M

Installation of 36,256 LF of 60" welded steel pipe crossing entirely agricultural fields. Included six large irrigation canal crossings and 350 LF of 72" highway tunnels.

#### EAST CHERRY CREEK VALLEY WATER & SANITATION DISTRICT - Denver, Colorado

#### Western Water Transmission Pipeline - Willows

\$6.4 M

Installation of 48" steel pipe with two separate crews. Included multiple tunnels under roadways.

#### **DUCHESNE COUNTY WATER CONSERVANCY DISTRICT - Duchesne, Utah**

#### Salinity Control Project - Phase II

\$4.2 M

Design-build project consisting of installing 19,200 LF of 48" to 66" steel pipeline.

#### XCEL ENERGY - Glenwood Springs, Colorado

Shoshone Penstock Substantial Repair

\$4.2 M

Installation of a 100" steel liner inside of existing twin 108" penstocks extending down a mountain side.

#### GREAT RIVER ENERGY - Underwood, North Dakota

#### Circulating Water System and New Circulating Water Return Line

\$3.2 M

Installation of 1,060 LF of 96" and 120" PCCP. Four tie-ins performed during an extremely short timeframe.

#### CITY OF WESTMINSTER - Westminster, Colorado

#### 36" Raw Water Pipeline and 24" Treated Water Pipeline

\$3.1 M

Installation of 10,000 LF of 36" DIP raw waterline and 2,100 LF of 24" DIP treated waterline.

#### WESTAR ENERGY - Lawrence, Kansas

#### Lawrence Energy Center Circulating Waterline Replacement

\$2.7 M

Slip lining 1,066 LF of 60" and 72" circulating waterlines with new spiral weld steel pipe.

#### WESTAR ENERGY - Topeka, Kansas

#### Relining of Circulating Waterlines

\$2.7 M

Slip lining two sections of 500 LF of 56" pipe, tying in four 42" lines, two 10" lines, and two 16" lines.

#### **LEFT HAND WATER DISTRICT - Niwot, Colorado**

#### Eastern Regional Transmission Pipeline

\$2.6 M

Installation of 24" and 30" steel and 12" PVC waterline.

#### XCEL ENERGY - Telluride, Colorado

#### Ames Elevated Suspended Penstock Replacement

\$2.2 M

Installation of 1,120 LF of 30" steel penstock. A 400 LF section was installed up the side of a steep mountain.

#### WESTAR ENERGY - St. Marys, Kansas

#### <u> Jeffrey Energy Center – Unit 3 Circulating Water Pipe Installation</u>

\$1.7 M

Installation of 1,050 LF of 120" PCCP in depth up to 25 feet. Included rock excavation and dewatering

#### XCEL ENERGY - Telluride, Colorado

#### Ames Pathfinder Lake Fork Project

\$233 K

Removal of 400 LF of 30" FRP pipeline and replacement with 30" DIP.



100% Employee Owned

# SDS PDC1B QUALITY CONTROL PHASE DESIGNATION AND DUTIES

#### Preparatory Phase:

- 1. Notify Construction Manager at least 48 hours in advance of beginning any required action of the preparatory phase.
- 2. Include a meeting conducted by the CQC System Manager and attended by the superintendent, other CQC personnel, and the foreman responsible for the definable feature.
- 3. Document the results of the preparatory phase meeting by separate minutes prepared by the CQC System Manager and attached to the QC report.
- 4. Perform prior to beginning Work on each definable feature of Work:
  - Review applicable Contract Specifications
  - Review applicable Contract Drawings
  - Verify that materials and/or equipment have been tested, submitted, and approved
  - Verify that provisions have been made to provide required control inspection and testing
  - Examine the Work area to verify that required preliminary Work has been completed and is in compliance with the Contract
  - Perform a physical examination of required materials, equipment, and sample Work to verify that they are on hand, conform to approved Shop Drawings or submitted data, and are properly stored
  - review the appropriate activity hazard analysis to verify safety requirements are met
  - Review procedures for constructing the Work, including repetitive deficiencies
  - Document construction tolerances and workmanship standards for the phase of the Work
  - Check to verify that the plan for the Work to be performed, if so required, has been accepted by Construction Manager

#### Initial Phase:

- 1. Notify Construction Manager at least 48 hours in advance of beginning the initial phase
- 2. Perform prior to beginning Work on each definable feature of Work:
  - Review minutes of the preparatory meeting
  - Check preliminary Work to verify compliance with Contract requirements
  - Verify required control inspection and testing

- Establish level of workmanship and verify that it meets minimum acceptable workmanship standards. Comparison with sample panels is appropriate
- Resolve differences
- Check safety to include compliance with and upgrading of the safety plan and activity hazard analysis. Review the activity analysis with each worker
- 3. Preparation of separate minutes of this phase by the CQC System Manager attached to the QC report. Indicate exact location of initial phase for future reference and comparison with follow-up phases
- 4. Repeat the initial phase for each new crew to work onsite, or any time acceptable specified quality standards are not being met

#### Follow-up Phase:

- 1. Perform daily checks to verify continuing compliance with Contract requirements, including control testing, until completion of the particular feature of Work.
- Make daily checks a matter of record in the CQC documentation and document specific results of inspections for features of Work for the day or shift
- Conduct final follow-up checks and correct deficiencies prior to the start of additional features of Work that will be affected by the deficient Work.
   Constructing upon or concealing nonconforming Work will not be allowed.
- 4. Additional Preparatory and Initial Phases: Additional preparatory and initial phases may be conducted on the same definable features of Work as determined by Construction Manager if the quality of ongoing Work is unacceptable; or if there are change in the applicable QC staff or in the onsite production supervision or work crew; or if work on a definable feature is resumed after a substantial period of inactivity, or if other problems develope



100% Employee Owned

#### SDS PDC1B **QUALITY CONTROL** PLAN OF ACTION OUTLINE AND DEFINITIONS

#### **Required Permits**

A Comprehensive list of all known permits required to perform the work. All permits shall have a designated responsible party following the permit name. This list is attached as provided by Colorado Springs Utilities

#### **Submittals**

Submittals will be managed and submitted by Garney Construction. Each submittal will follow the procedures outlined in Section 01 33 00 of the Specifications.

Submission, control and approval of all submittals will be through the PCM system.

#### **Testing**

Testing required by a specific permitting entity and / or the contract documents shall be listed in the detailed plan of work. All testing shall have the responsible party designated.

#### Reporting

All reports shall be listed including the designated party and shall be distributed through PCM.

#### **Compliance Tracking**

Compliance tracking will be logged, controlled and maintained by the attached checklist. This list will be maintained by Garney's CQC Administrators and distributed monthly for review.

#### **Deficiency Tracking**

Deficiency tracking will be logged, controlled and maintained by the attached log: this document will be maintained by Garney's CQC Administrator and distributed monthly for review.



# SDS PDC1B QUALITY CONTROL DEFINABLE FEATURES OF WORK

Temporary Stormwater Pollution, Erosion, and Sediment Control

**Backfill Grouting** 

**Process Piping** 

Trench Backfill

**Hydrostatic Testing** 

**Asphalt Paving** 

**Traffic Control** 

Fencing

Fiber Optic Communication Subsystem

**Cathodic Protection** 

Manholes and Precast Vaults

# SDS PDC1B QUALITY CONTROL DETAILED PLANS OF ACTION

#### Temporary Stormwater Pollution, Erosion, and Sediment Control

1. Required Permits

CDPHE: Construction Dewatering General Permit – Garney

**CDPHE**: APEN and Construction Permit – Garney

CDPHE: Construction Stormwater General Permit - Utilities / Garney

CDOT: Special Use/Utility Permit - Utilities / Garney

#### 2. Required Submittals

Certificates of inspection of seed by state or federal authorities

Certificates of weed-free mulch

Manufacturer's certificate of compliance attesting that erosion and sediment control products meet requirements of these Specifications.

Fertilizer proof of quantities

Stormwater management plan

#### 3. Required Testing

None

#### 4. Required Documentation

SWMP manual - Garney

Certificates of inspection

Certificates of weed-free mulch

Colorado Discharge Permit System (CDPS)

#### **Backfill Grouting**

1. Required Permits

CDPHE: APEN and Construction Permit - Garney

#### 2. Required Submittals

**Qualifications** 

Work Plan for placing LDCC

Pre-Placement test reports and certifications

Daily reports and records of backfill grout placement

**Product Data** 

Equipment specifications and operating instructions

#### 3. Required Testing

Tentative Mix Test

Two (2) sets of compressive test cylinders, three (3) per set shall be made from proposed backfill grout mix. Test one set at 7 days

the other set at 28 days.
Field Control Tests

Unit weight, air content and compression tests

#### 4. Required Documentation

Cellular Grout Test Result

#### **Process Piping**

1. Required Permits

**CDPHE**: Construction Dewatering General Permit – Garney

CDPHE: General Permit for Hydrostatic Testing of Pipelines, Tanks, and

Similar Vessels - Garney

CDPHE: APEN and Construction Permit - Garney

CDPHE: Construction Stormwater General Permit – Utilities / Garney

CDOT: Special Use/Utility Permit – Utilities / Garney

#### 2. Required Submittals

**Shop Drawings** 

Flanges on project

Manufacturer's certification of compliance

Certified calibrations, manufacturer's product data, and test procedures

Certified copies of mill test reports

Affidavit of compliance with referenced standards

Manufacturer's design calculations for fixed sleeve design

#### 3. Required Testing

**Hydrostatic Testing** 

#### 4. Required Documentation

Steel Pipe Test Reports - Garney / NWP

Welding Test Reports - Utilities

Pipe Bedding Test Reports - Utilities

Trench Zone Backfill Reports - Utilities

Embankment and Rip Rap Bedding Reports - Utilities

Aggregate Base Test Reports - Utilities

Cathodic Test Reports - Utilities

Holiday Testing – Utilities

**Deflection Measurements - Utilities** 

#### Trench Backfill

#### 1. Required Permits

<u>CDPHE</u>: APEN and Construction Permit – Garney CDOT: Special Use/Utility Permit – Utilities / Garney

#### 2. Required Submittals

Shop drawings: Manufacturer's descriptive literature for marking tapes

Samples

**CLSM** 

Catalog and manufacturer's data sheets

Certified gradation analysis

Credentials of certified lab conducting gradation analysis

Description and location of proposed sources of imported material

Description of equipment and location of the proposed materials processing operations

Tests for conformance: Submit certification and test records of materials Material testing work plan

#### 3. Required Testing

**Material Testing** 

Perform particle sieve analysis of soils and aggregates - Garney Field Testing - Utilities
Compaction Tests - Utilities

#### 4. Required Documentation

Trench Zone Backfill Reports - Utilities Embankment and Rip Rap Bedding Reports - Utilities Concrete Test Results – Utilities

#### **Hydrostatic Testing**

1. Required Permits

<u>CDPHE</u>: General Permit for Hydrostatic Testing of Pipelines, Tanks, and

SimilarVessels – Garney

**CDPHE**: Construction Stormwater General Permit – Utilities / Garney

U.S. Army Corps of Engineers: Clean Water Act Section 404 Permit-Utilities

CDPHE: Clean Water Act Section 401- Water Quality Certification -

Utilities

#### 2. Required Submittals

#### 3. Required Testing

Hydro Test Pipeline

Hydro Test Pipeline for duration of 2 hours with zero loss Discharge Pipeline as per approved Discharge Plan

#### 4. Required Documentation

Hydro Test Report - Utilities

#### **Asphalt Paving**

1. Required Permits

<u>CDPHE</u>: APEN and Construction Permit – Garney

CDPHE: Construction Stormwater General Permit – Utilities / Garney

**CDOT**: Special Use/Utility Permit – Utilities / Garney

#### 2. Required Submittals

Asphalt concrete mix formula

Test reports for asphalt cement Manufacturer's certificate of compliance Statement of qualification for independent testing laboratory Test results Pavement markings

#### 3. Required Testing

Test Report for Asphalt Cement
Mix design
Asphalt concrete core
Gradation and asphalt content of uncompacted mix

Field density

#### 4. Required Documentation

Subgrade Density Test Reports - Utilities

Asphalt Density Test Reports - Utilities

#### **Traffic Control**

- 1. Required Permits
- 2. Required Submittals

Personnel qualifications
Traffic control plan
Project traffic control diary

3. Required Testing

None

4. Required Documentation

None

#### **Fencing**

1. Required Permits

**CDPHE**: APEN and Construction Permit – Garney

2. Required Submittals

Shop drawings

Samples

Samples of available fence colors

Manufacturer's recommended installation instructions

Evidence of supplier and installer qualifications

Installation procedures

3. Required Testing

None

4. Required Documentation

#### Fiber Optic Communication Subsystem

1. Required Permits

<u>CDPHE</u>: APEN and Construction Permit – Garney <u>CDOT</u>: Special Use/Utility Permit – Utilities / Garney

2. Required Submittals

Shop drawings
Manufacturer's cut sheet
Contractor and subcontractor qualifications
Tracer wire continuity test
Construction as-built records

3. Required Testing

Test and seal ducts
Tracer wire continuity test

4. Required Documentation

Construction As-Built records

#### **Cathodic Protection**

1. Required Permits

**CDPHE**: APEN and Construction Permit – Garney

2. Required Submittals

Catalog cuts and other information for products to be used
Compliance statement
Test data for open circuit potential measurements and electrochemical
capacity for high potential magnesium anodes
Field test reports
Cathodic protection specialist and technician qualifications

3. Required Testing Field Testing

4. Required Documentation

Field Test Reports Compliance Statement

#### **Manholes and Precast Vaults**

1. Required Permits

<u>CDPHE</u>: General Permit for Hydrostatic Testing of Pipelines, Tanks, and

Similar Vessels - Garney

CDPHE: APEN and Construction Permit – Garney

#### <u>CDOT</u>: Special Use/Utility Permit – Utilities / Garney

# 2. Required Submittals Shop drawings Manufacturer's test results Pre cast manhole sections

- 3. Required Testing None
- 4. Required Documentation None

#### SECTION 01 41 26 PERMITS

#### PART 1 GENERAL

#### 1.01 THE REQUIREMENT

- A. The intent of this Section is to provide the known list of required permits for the Work under the Contract Documents. Completeness of the list is not guaranteed by OWNER. The absence of information does not relieve CONTRACTOR of responsibility for determining and verifying the extent of permits required and for obtaining permits.
- B. Obtain permits required for the execution of the Work, as indicated. Furnish copies of permits obtained by CONTRACTOR to the CONSTRUCTION MANAGER, in accordance with Paragraph 1.04.B of this Section.
- C. Comply with conditions of the permits and with Laws and Regulations applicable to the performance of the Work, in accordance with General Conditions, Sections 6.08 Construction and Environmental Permits and 6.09 Laws and Regulations.
- D. Inform CONSTRUCTION MANAGER of any conflict between permit requirements and the Contract Documents. Comply with permit requirements.
- E. Copies of permits obtained by OWNER will be provided by the CONSTRUCTION MANAGER. Maintain a notebook of permits onsite during construction.

#### 1.02 SUMMARY OF PERMITS TO BE OBTAINED BY CONTRACTOR

- A. CONTRACTOR Initiated and CONTRACTOR Obtained Permits: Apply for and obtain the permits listed in Paragraph 1.02.D of this Section.
- B. OWNER Initiated and CONTRACTOR Obtained Permits: Some permit applications have been initiated by OWNER during design and will be provided to CONTRACTOR to assist CONTRACTOR in securing those permits. OWNER does not guarantee the accuracy of the permit applications, requirements, and/or fees. Apply for and obtain the permits listed in Paragraph 1.02.E of this Section.
- C. Complete the permit applications, including those that have been initiated by OWNER, and submit to the permitting agency. Coordinate with the OWNER's Permit Coordinator as necessary to clarify permit requirements. Unless the permitted activity is specifically limited, permits obtained cover the entire Work.

D. Known Permits to be Initiated and Obtained by CONTRACTOR:

Permitting Authority	Permit Name	Permittee
Bureau of Reclamation	Special Work Permit	CONTRACTOR
CDOT	Transport Permit (for heavy/wide loads)	CONTRACTOR
CDPHE	Construction Dewatering General Permit	CONTRACTOR
CDPHE	General Permit for Hydrostatic Testing of Pipelines, Tanks, and Similar Vessels	CONTRACTOR
CDPHE	Air Pollution Emission Notice (APEN) and Land Development General Permit	CONTRACTOR
CDPHE	Construction Stormwater General Permit	CONTRACTOR (Initial SWMP to be prepared by UTILITIES, CONTRACTOR to obtain permit.)
Pueblo County	Traffic Control Plan Submittal and Review	CONTRACTOR
Colorado Division of Water Resources	Notice of Intent (to drill dewatering wells, if required)	CONTRACTOR

#### 1.03 SUMMARY OF PERMITS OR APPROVALS OBTAINED BY UTILITIES

- A. The permits listed in Paragraphs 1.03.D and 1.03.E of this Section have been or are in the process of being obtained by UTILITIES.
- B. Copies of the permits and their requirements, if available, will be provided by the CONSTRUCTION MANAGER. Unless the permitted activity is specifically limited, permits obtained cover the entire work. Comply with the requirements of the permits.

- C. No additional compensation or additional Contract Times will be granted to CONTRACTOR because of delays by UTILITIES in obtaining permits unless CONTRACTOR is unable to proceed and complete Work and such delays are clearly demonstrated by the CONTRACTOR's Progress schedule. Provide UTILITIES at least 30 calendar days notice if the CONTRACTOR's schedule will be impacted due to permits not being secured.
- D. Known Permits and/or Agreements Obtained by UTILITIES:

Permitting Authority	Permit Name	Permittee
Bureau of Reclamation	Record of Decision	UTILITIES
Bureau of Reclamation	Memorandum of Understanding	UTILITIES
Bureau of Reclamation	Right-of-Use Authorization	UTILITIES
Bureau of Reclamation	Fountain Valley Authority Pipeline Easement Letter of Consent	UTILITIES
U.S. Army Corps of Engineers	Clean Water Act Section 404 Permit	UTILITIES
Colorado State Parks	Memorandum of Understanding (MOU)	UTILITIES
CDHPE	Clean Water Act Section 401 – Water Quality Certification	UTILITIES
CDOW	Fish and Wildlife Mitigation Plan Approval	UTILITIES
Colorado Historical Society: Office of Archaeology and Historic Preservation	Section 106 and Class III Cultural Resource Survey Concurrence	UTILITIES
Pueblo County	1041 Permit	UTILITIES

E. Known Permits and/or Agreements to be Obtained by UTILITIES:

Permitting Authority	Permit Name	Permittee
Bureau of Reclamation	299/Special Use Permit	UTILITIES
Pueblo County	Staging Area Plan	UTILITIES
Pueblo County	Haul Route Plan	UTILITIES

#### 1.04 INFORMATIONAL SUBMITTALS

- A. Furnish submittals in accordance with Section 01 33 00, Submittal Procedures.
- B. Submit copies of permits and approvals for construction as required by Laws and Regulations and governing agencies, including those to be obtained by CONTRACTOR or transferred to CONTRACTOR to the CONSTRUCTION MANAGER within 14 days of approval or transfer date.
- C. Submit copies of all compliance reports or other documentation whether submitted by CONTRACTOR to a regulatory agency or provided to CONTRACTOR by a regulatory agency immediately upon transmittal or receipt.
- D. Upon the completion of the work, submit evidence of permit close-out for the permits held by the CONTRACTOR, except stormwater-related permits, prior to OWNER issuance of Final Completion.
- PART 2 PRODUCTS (NOT USED)
- PART 3 EXECUTION (NOT USED)

**END OF SECTION** 

# Temporary Stormwater Pollution, Erosion, and Sediment Control

1. Required Permits

<u>CDPHE</u>: Construction Dewatering General Permit – Garney

<u>CDPHE</u>: APEN and Construction Permit – Garney

<u>CDPHE</u>: Construction Stormwater General Permit – Utilities / Garney

**CDOT**: Special Use/Utility Permit – Utilities / Garney

### 2. Required Submittals

Certificates of inspection of seed by state or federal authorities

Certificates of weed-free mulch

Manufacturer's certificate of compliance attesting that erosion and sediment

control products meet requirements of these Specifications.

Fertilizer proof of quantities

Stormwater management plan

## 3. Required Testing

None

### 4. Required Documentation

SWMP manual - Garney

Certificates of inspection

Certificates of weed-free mulch

Colorado Discharge Permit System (CDPS)

# **Backfill Grouting**

1. Required Permits

**CDPHE**: APEN and Construction Permit – Garney

2. Required Submittals

Qualifications

Work Plan for placing LDCC

Pre-Placement test reports and certifications

Daily reports and records of backfill grout placement

Product data

Equipment specifications and operating instructions

3. Required Testing

Tentative Mix Test

Two (2) sets of compressive test cylinders, three (3) per set shall be made from proposed backfill grout mix. Test one set at 7 days the other set at 28 days.

**Field Control Tests** 

Unit weight, air content and compression tests

4. Required Documentation

Cellular Grout Test Results

## **Process Piping**

## 1. Required Permits

**CDPHE**: Construction Dewatering General Permit – Garney

CDPHE: General Permit for Hydrostatic Testing of Pipelines, Tanks, and Similar

Vessels – Garney

**CDPHE**: APEN and Construction Permit – Garney

<u>CDPHE</u>: Construction Stormwater General Permit – Utilities / Garney

<u>CDOT</u>: Special Use/Utility Permit – Utilities / Garney

### 2. Required Submittals

**Shop Drawings** 

Flanges on project

Manufacturer's certification of compliance

Certified calibrations, manufacturer's product data, and test procedures

Certified copies of mill test reports

Affidavit of compliance with referenced standards

Manufacturer's design calculations for fixed sleeve design

### 3. Required Testing

Hydrostatic Testing

## 4. Required Documentation

Steel Pipe Test Reports - Garney / NWP

Welding Test Reports - Utilities

Pipe Bedding Test Reports - Utilities

Trench Zone Backfill Reports - Utilities

Embankment and Rip Rap Bedding Reports - Utilities

Aggregate Base Test Reports - Utilities

Cathodic Test Reports – Utilities

Holiday Testing – Utilities

**Deflection Measurements - Utilities** 

### Trench Backfill

## 1. Required Permits

<u>CDPHE</u>: APEN and Construction Permit – Garney <u>CDOT</u>: Special Use/Utility Permit – Utilities / Garney

# 2. Required Submittals

Shop drawings: Manufacturer's descriptive literature for marking tapes

Samples CLSM

Catalog and manufacturer's data sheets

Certified gradation analysis

Credentials of certified lab conducting gradation analysis

Description and location of proposed sources of imported material

Description of equipment and location of the proposed materials processing operations

Tests for conformance: Submit certification and test records of materials

Material testing work plan

# 3. Required Testing

Material Testing

Perform particle sieve analysis of soils and aggregates - Garney

Field Testing - Utilities

Compaction Tests - Utilities

### 4. Required Documentation

Trench Zone Backfill Reports - Utilities

Embankment and Rip Rap Bedding Reports - Utilities

Concrete Test Results - Utilities

## **Hydrostatic Testing**

1. Required Permits

**CDPHE**: General Permit for Hydrostatic Testing of Pipelines, Tanks, and

SimilarVessels – Garney

<u>CDPHE</u>: Construction Stormwater General Permit – Utilities / Garney

<u>U.S. Army Corps of Engineers:</u> Clean Water Act Section 404 Permit-Utilities <u>CDPHE</u>: Clean Water Act Section 401- Water Quality Certification – Utilities

- 2. Required Submittals
- 3. Required Testing

Hydro Test Pipeline

Hydro Test Pipeline for duration of 2 hours with zero loss Discharge Pipeline as per approved Discharge Plan

4. Required Documentation

Hydro Test Report - Utilities

## **Asphalt Paving**

1. Required Permits

**CDPHE**: APEN and Construction Permit – Garney

**CDPHE**: Construction Stormwater General Permit – Utilities / Garney

CDOT: Special Use/Utility Permit – Utilities / Garney

### 2. Required Submittals

Asphalt concrete mix formula

Test reports for asphalt cement

Manufacturer's certificate of compliance

Statement of qualification for independent testing laboratory

Test results

Pavement markings

# 3. Required Testing

Test Report for Asphalt Cement

Mix design

Asphalt concrete core

Gradation and asphalt content of uncompacted mix

Field density

# 4. Required Documentation

Subgrade Density Test Reports - Utilities

Asphalt Density Test Reports - Utilities

# **Traffic Control**

- 1. Required Permits
- 2. Required Submittals

  Personnel qualifications

  Traffic control plan

  Project traffic control diary
- 3. Required Testing None
- 4. Required Documentation None

# **Fencing**

1. Required Permits

**CDPHE**: APEN and Construction Permit - Garney

2. Required Submittals

Shop drawings

Samples

Samples of available fence colors

Manufacturer's recommended installation instructions

Evidence of supplier and installer qualifications

Installation procedures

3. Required Testing

None

4. Required Documentation

Inspection - Visual

# **Fiber Optic Communication Subsystem**

1. Required Permits

<u>CDPHE</u>: APEN and Construction Permit – Garney <u>CDOT</u>: Special Use/Utility Permit – Utilities / Garney

## 2. Required Submittals

Shop drawings

Product submittals: Manufacturer's cut sheet Contractor and subcontractor qualifications

Tracer wire continuity test Construction as-built records

# 3. Required Testing

Test and seal ducts
Tracer wire continuity test

## 4. Required Documentation

Construction As-Built records

# **Cathodic Protection**

1. Required Permits

**CDPHE**: APEN and Construction Permit – Garney

2. Required Submittals

Catalog cuts and other information for products to be used

Compliance statement

Test data for open circuit potential measurements and electrochemical capacity

for high potential magnesium anodes

Field test reports

Cathodic protection specialist and technician qualifications

3. Required Testing

Field Testing

4. Required Documentation

Field Test Reports

Compliance Statement

# **Manholes and Precast Vaults**

1. Required Permits

**CDPHE**: General Permit for Hydrostatic Testing of Pipelines, Tanks, and Similar

Vessels – Garney

<u>CDPHE</u>: APEN and Construction Permit – Garney <u>CDOT</u>: Special Use/Utility Permit – Utilities / Garney

2. Required Submittals

Shop drawings Manufacturer's test results Pre cast manhole sections

3. Required Testing

None

4. Required Documentation

None

Temporary Stormwater Pollution, Erosion, and Sediment Control	, and Sedimer	nt Control		
Required Permits:	Obtained	Pending		
Construction Dewatering General Permit				
APEN and Construction Permit				
Driveway Access Permit				
ROW Excavation Permit				
Construction Stormwater General Permit				
Utility/Special Use Permit				
Haul Route Plan				
Required Submittals:	Submitted	Approved	Pending	
Certificates of inspection of seed by state or federal authorities				
Certificates of weed-free mulch				
Manufacturer's certificate of compliance attesting that erosion and sediment control				
products meet requirements of these Specifications				
Fertilizer Proof of Quantities				
SWMP				
Required Documentation:	Obtained	Pending	Ongoing	
SWMP manual				
Certificates of inspection				
Certificates of weed-free mulch				
Colorado Discharge Permit System ( CDPS )				

Backfill Grouting				
Required Permits:	Obtained	Pending		
APEN and Construction Permit				
Driveway Access Permit				
ROW Excavation Permit				
Haul Route Plan				
Required Submittals:	Submitted	Approved	Pending	
Qualifications				
Work plan for LDCC				
Pre-placement test reports and certifications				
Daily reports and records of backfill grout placement				
Product Data				
Equipment specifications and operating instructions				
Required Documentation:	Obtained	Pending	Ongoing	
Cellular Grout Test Results				

Process Piping				
Required Permits:	Obtained	Pending		
atering Genera				
General Permit for Hydrostatic Testing of Pipelines, Tanks, & Similar Vessels				
APEN and Construction Permit				
Driveway Access Permit				
ROW Excavation Permit				
Construction Stormwater General Permit				
Utility/Special Use Permit				
Staging Area Plan				
Haui Route Plan				
Required Submittals:	Submitted	Approved	Pending	
Shop drawings				
Flanges on project				
Manufacturer's certification of compliance				
Certified calibrations, manufacturer's product data, and test procedures				
Certified copies of mill test reports				
Affidavit of compliance with referenced standards				
Manufacturer's design calculations for fixed sleeve design				
Required Documentation:	Obtained	Pending	Ongoing	
Steel pipe test reports				
Welding test reports				_
Pipe bending test reports				
Trench zone backfill reports				
Embankment and rip rap bedding reports				-
Aggregate base test reports				
Cathodic test reports				
Holiday testing				
Deflection measurements				

Required Permits:  APEN and Construction Permit Driveway Access Permit ROW Exavation Permit Haul Route Plan Williny/Special Use Permit Haul Route Plan Required Submittals: Samples Certified gradation analysis Certified gradation analysis Description of equipment and location of the proposed materials processing operations Material testing work plan Trench zone backfill reports Trench zone backfill reports Concrete test results Concrete test results Concrete test results  Obtained  Description  Obtained  Description  Optained  Description  Optained  Description  Optained  Description  Optained  Description  Description of the proposed materials processing operations  Material testing work plan Trench zone backfill reports  Trench zone backfill reports  Concrete test results  Concrete test results	Tranch Rackfill				
er's literature for marking tape er's literature for marking tape  onducting gradation analysis proposed sources of imported materials proposed sources of imported materials and location of the proposed materials processing operations dding reports  Obtained Pending		Obtained	Pending		
er's literature for marking tape  onducting gradation analysis proposed sources of imported material and location of the proposed materials processing operations dding reports  Obtained Pending	APEN and Construction Permit				
er's literature for marking tape  onducting gradation analysis proposed sources of imported material and location of the proposed materials processing operations adding reports  Obtained Pending	Driveway Access Permit				
er's literature for marking tape  onducting gradation analysis proposed sources of imported material and location of the proposed materials processing operations adding reports  Obtained Pending	ROW Excavation Permit				
er's literature for marking tape  onducting gradation analysis proposed sources of imported material ad location of the proposed materials processing operations dding reports  Obtained Pending	Utility/Special Use Permit				
er's literature for marking tape  onducting gradation analysis proposed sources of imported materials and location of the proposed materials processing operations dding reports  Obtained  Pending	Haul Route Plan				
er's literature for marking tape  onducting gradation analysis proposed sources of imported material ad location of the proposed materials processing operations dding reports	Required Submittals:	Submitted	Approved	Pending	
onducting gradation analysis proposed sources of imported material ad location of the proposed materials processing operations dding reports	Shop drawings: Manufacturer's literature for marking tape				
onducting gradation analysis proposed sources of imported material ad location of the proposed materials processing operations dding reports	Samples				
onducting gradation analysis proposed sources of imported material ad location of the proposed materials processing operations dding reports	CLSM				
orducting gradation analysis proposed sources of imported material and location of the proposed materials processing operations and ding reports	Certified gradation analysis				
proposed sources of imported materials ad location of the proposed materials processing operations  Obtained Pending	Credentials of certified lab conducting gradation analysis				
nd location of the proposed materials processing operations  Obtained Pending	Description and location of proposed sources of imported material				
nd location of the proposed materials processing operations  Obtained Pending					
Obtained Pending dding reports					
Obtained Pending dding reports	lan				
Obtained Pending dding reports	Tests for conformance				
dding reports	Required Documentation:	Obtained	Pending	Ongoing	
rap beddir	Trench zone backfill reports				
Concrete test results					•
	Concrete test results				

Hydrostatic Testing				
Required Permits:	Obtained	Pending		
General Permit for Hydrostatic Testing of Pipelines, Tanks, & Similar Vessels				
Construction Stormwater General Permit				
Harri Route Dlan				
Clean Water Act Section 404 Permit				
Clean Water Act Section 401 Permit				
Benitzed Culturittals:	Submitted	Approved	Pending	:
Required Documentation:	Obtained	Pending	Ongoing	
Hydrostatic Testing Report				

Asphalt Paving				
tion Permit				
APEN and Construction Permit	Obtained	Pending		
Driveway Access Permit				
ROW Excavation Permit				
Construction Stormwater General Permit				
Utility/Special Use Permit				
Staging Area Plan		:		
Haul Route Plan				
Required Submittals:	Submitted	Approved	Pending	
Asphalt concrete mix formula				
Test reports for asphalt cement				
Manufacturer's certificate of compliance				
Statement of qualification for independent testing laboratory				
Test results				
Pavement markings				
Required Documentation: Obt	Obtained	Pending	Ongoing	
Subgrade density test reports				
Asphalt density test reports				
Ashalt density test results				

Traffic Control				
Required Permits:	Obtained	Pending		
Driveway Access Permit				
Ctaging Aroa Plan				
Hari Poute Dian				
Required Submittals:	Submitted	Approved	Pending	
Portonnel malification				
Traffic control plan				
	Sec. in a		Oncoine	
Required Documentation:	Optained	Kenomy	XIIIXXIIIX	

Fencing				
Required Permits;	Obtained	Pending		
APEN and Construction Permit				
Driveway Access Permit				
ROW Excavation Permit				
Staging Area Plan			_	
Haul Route Plan				
Required Submittals:	Submitted	Approved	Pending	
Shop drawings				
Samples				
Samples of available fence colors				
Manufacturer's recommended installation instructions				
Evidence of supplier and installer qualifications				
Installation procedures				
Required Documentation:	Obtained	Pending	Ongoing	
Inspection - visual				

Fiber Optic Communication Subsystem	ubsystem			
Required Permits:	Obtained	Pending		
APEN and Construction Permit				
Driveway Access Permit				
ROW Excavation Permit				
Utilities/Special Use Permit				
Staging Area Plan				
Haul Route Plan				
Required Submittals:	Submitted	Approved	Pending	
Shop drawings				
Product submittals				
Contractor and subcontractor qualifications				
Tracer wire continuity test				
Construction as-built records				
Required Documentation:	Obtained	Pending	Ongoing	
Construction as-built records				

Cathodic Protection	u			
Required Permits;	Obtained	Pending		
APEN and Construction Permit				
Staging Area Plan				
Haui Route Plan				
Required Submittals:	Submitted	Approved	Pending	
Catalog cuts and other information for products to be used				
Compliance statement				
Test data for open circuit potential measurements and electrochemical capacity for high				
potential magnesium anodes				
Field test reports				•
Cathodic protectionspecialist and technician qualifications				
Required Documentation:	Obtained	Pending	Ongoing	
Field test reports				
Compliance statement				

			Daily Inspection Form
			Temporary Erosion and Sediment Control
	YES	ON	COMMENTS
Erosion control installed			
Sediment control working properly			
Deficiencies			
	11.00		<u>Backfill Grouting</u>
	YES	ON	COMMENTS
Was backfill grout placed			
Total CY			
Deficiencies			
			Process Piping
	YES	NO	COMMENTS
Was steel pipe installed			
How many LF was installed		LF	
Stations started and ended			
Were utilities crossed			
Deficiencies		-	
			Excavation and Fill
	YES	ON.	COMMENTS

					Hydrostatic Testing	COMMENTS		Asphalt Paving	COMMENTS			<u> Traffic Control</u>	COMMENTS			Passive Cathodic Protection	COMMENTS		
		Į.	LF			ON	Gal		ON				Q.				ON		
						YES			YES			<b>建筑建设</b>	YES			<b>经产品的</b>	YES		
Was open trench	backfilled	How many LF of trench was backfilled	How many LF of Trench was CLSM	Deficiencies			How many gallons of water was discharged from pipe			Was asphalt work done	Deficiencies			Was traffic control in use	Locations			Cathodic protection installed on the pipe	Amount installed

Deficiencies			
			Manholes and Precast Vaults
	YES	ON	COMMENTS
Was a manhole or precast vault to be installed along pipeline			
Deficiencies			

	Weekly	CQC Re	Weekly CQC Report Form
Temporary	Stormwater Po	ollution, Er	Temporary Stormwater Pollution, Erosion, and Sediment Control
TASK	Quantity	Unit	Comments
Silt Fence		LF	
Logs		LF	
Straw Bales		EA	
Rock Socks		LF	
Rock Check Dam		LF	
Erosion Control Blanket		SF	
Deficiences: Noted/Repair			

Weekly CQC Report Form	Backfill Grouting	Unit Comments	CY					
Weekly		TASK Quantity	LDCC Placed					Delays or Problems:

	Weekly	CQC Re	Weekly CQC Report Form
		Process Piping	Buj
TASK	Quantity	Unit	Comments
Pipe Installed		LF	
Encased Piping		ΙĿ	
Embedded Piping		Τ'n	
Blow off		EA	
CARV		EA	
Delays or Problems:			

	Weekly (	CQC Re	Weekly CQC Report Form
		Trench Backfill	dill
TASK	Quantity	Unit	Comments
Type A- Foundation Stabilization Material		Ton	
Rip Rap		Ton	
Delays or Problems:			

Weekly CQC Report Form	esting	Comments							
CQC Re	Hydrostatic Testing	Unit	Gal	Gal					
Weekly	Hya	Quantity							
		TASK	Hydrostatic Test Performed	Water Discharged				Delays or Problems:	

Weekly CQC Report Form	rol	Comments							
CQC Re	Traffic Control	Unit	Day(s)	EA					
Weekly (	<b>L</b>	Quantity							
		TASK	Traffic Control	Locations				Delays or Problems:	

	Weekly	CQC Re	Weekly CQC Report Form
		Fencing	
TASK	Quantity	Unit	Comments
Orange Safety Fence		ЭЛ	
Chain Link Fence		J.	
Chain Link Gate		EA	
Wire Fence		J.	
Wige Gate		EA	
Delays or Problems:			

	Weekly	CQC Re	Weekly CQC Report Form
	Fiber Optic C	ommunica	Fiber Optic Communication Subsystem
TASK	Quantity	Unit	Comments
Fiber Optic Installed		J.	
Handholes Installed		T.	
Delays or Problems:			

		П							
Weekly CQC Report Form	sction	Comments							
CQC Re	Cathodic Protection	Unit	EA	EA					
Weekly	Catl	Quantity							
		TASK	Magnesium Anodes Installed	Test Stations				Delays or Problems:	

TASK Qua  Manholes  Precast Vaults  Delays or Problems:	Weekly CC Quantity	OC Re	Weekly CQC Report Form  Manholes and Precast Vaults  Quantity  EA  EA  EA

		Com	pliance T	Compliance Tracking Log	<b>J</b> g		
						•	
Specification Section	Identification	Prepatory Phase	Initial Phase	Follow-up Phase	Verification	Acceptance Test	Documentation
Temporary Stormwater Pollution, Erosion, and Sediment Control							
Backfill Grouting						-	
Process Piping							
Trench Backfill							
Hydrostatic Testing							
Asphalt Paving					į		
Traffic Control							
Fencing				į			
Fiber Optic Communication							
Cathodic Protection							
Manholes and Precast Vaults							

	Date Corrected					
eficiency Tracking Log	Acceptable Corrective Action					
Deficie	Deficiency					
	Date					

			and the state of t		



# **SDS PDC1B, PWC & RPSSI**

# **Site Security Plan**

**Site Security Plan:** Garney Construction will implement the following plan to secure the Southern Delivery PDC1B & PWC Pipeline Project.

During working hours, Garney employees will maintain security and protect the site throughout each work shift. If working in the secured area, G4S Security will be onsite for maintaining security.

During the non working hours Garney will employ a subcontractor to secure the site. The subcontractor will be a trained security guard but will not be armed. Garney's unarmed guard will provide security only in the lay down area and work limits outside the Reclamation secure area. When working within the secured area, G4S guards will be onsite and armed.

When Garney's security officers have joint oversight of the sight, the G4S officers will focus on the Reclamation secured area and Garney's contractor will focus on the staging area and work limits outside of the secure fence.

The Guard on Duty will call the following, in sequence, if there is an occurrence:

### **Emergency:**

911

### Suspicious Activity/ Non-Emergency:

Ryan Schulte

John Miller

**Bill Williams** 

**Local Authorities** 

Tools, equipment and small materials will be locked whenever possible by the use of fencing, tool trailers, connex boxes, and other storage devices all equipped with a variety of <u>Equipment Lock</u> Products.



### **USBR Secured Area:**

- \*Anyone accessing the restricted area past the Chainlink Fence at the Dam must be accompanied and remain in eyesight of your escort.
- \*All entrants must sign in and sign out with the appointed security guard at this location.

# SECURITY CLEARANCES FOR WORK WITHIN RECLAMATION SECURED AREAS

- A. Reclamation secured areas are shown on drawings.
- B. Work Package 1B Station 10+00 through Station 12+30 will occur within Reclamation's Secured Area.
- C. CONTRACTOR's Responsibilities:
  - 1. Assign one point of contact to work with Reclamations PIV
    Coordinator. This point of contact will be responsible tracking progress of PIV
    applications between CONTRACTOR's personnel and
    Reclamations PIV Coordinator. CONTRACTOR personnel will need to
    have a personal email account, access to the internet and a fax machine to
    complete the Questionnaire for Non-Sensitive Positions (SF-85) via
    Reclamation's e-QIP system.
  - 2. Provide personnel list and forms to Reclamation PIV Coordinator for all personnel onsite. Allow 2 weeks from submission of information via Reclamation's e-QIP system for Reclamation to tentatively approve an individual's PIV and issue security clearance prior to allowing personnel onsite, assuming that no unfavorable information is provided from the National Agency Check. Six weeks after Reclamation receives the employee's data in Reclamation's e-QIP system, a National Agency Check with Inquiries (NACI) will have been completed. If the NACI contains unfavorable information, the employee will have their access to the construction site revoked.
  - 3. Upon PIV approval and issuance of security clearance, CONSTRUCTION MANAGER will issue a project specific Personal



### ADVANCING WATER

Identification Badge. Badges shall be worn at all times while onsite for the duration of construction.

- 4. CONSTRUCTION MANAGER will issue a project specific Vehicle Identification Pass. Passes shall remain in construction vehicles for the duration of construction.
- 5. Adhere to National Security levels and requirements.
- 6. Maintain complete accurate log of all personnel, subcontractors, and visitors onsite.
- 7. Visitors must provide copy of valid driver's license prior to entering site.

### **United States Bureau of Reclamation:**

- a. Eastern Colorado Area Office:
  - 1) Contact Person: Karl Thiel.
  - 2) Telephone: (970) 962-4331.
- b. Dam Operations:
  - 1) Contact Person: Roy Vaughan.
  - 2) Telephone: (719) 561-9855.
- c. PIV Coordinator:
  - 1) Contact Person: Alma Bergerson.
  - 2) Telephone: (406) 247-7801.
- d. Personnel Security Specialist:
  - 1) Contact Person: Ron Yesda.
  - 2) Telephone: (406) 247-7620.
- e. Dam Safety:
  - 1) Contact Person: Paula Baty.
  - 2) Telephone: (970) 962-4375.
- f. Safety and Security Manager:
  - 1) Contact Person: Howard Bailey.
  - 2) Telephone: (970) 962-4355.
  - 3) Or David Hartman (970) 962-4343.