Mid-West Consumer Electric Meeting
December 9, 2025

Omaha District Operations Division

David Sobczyk, PE
Chief, Operations Division

U.S. ARMY

US Army Corps of Engineers

OMAHA DISTRICT

PROGRAM OVERVIEW

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US Army Corps of Engineers®
Omaha District

MISSION STATEMENT

The Omaha District, with over 90 years of experience, delivers safe, quality engineering solutions in a timely and cost effective manner.

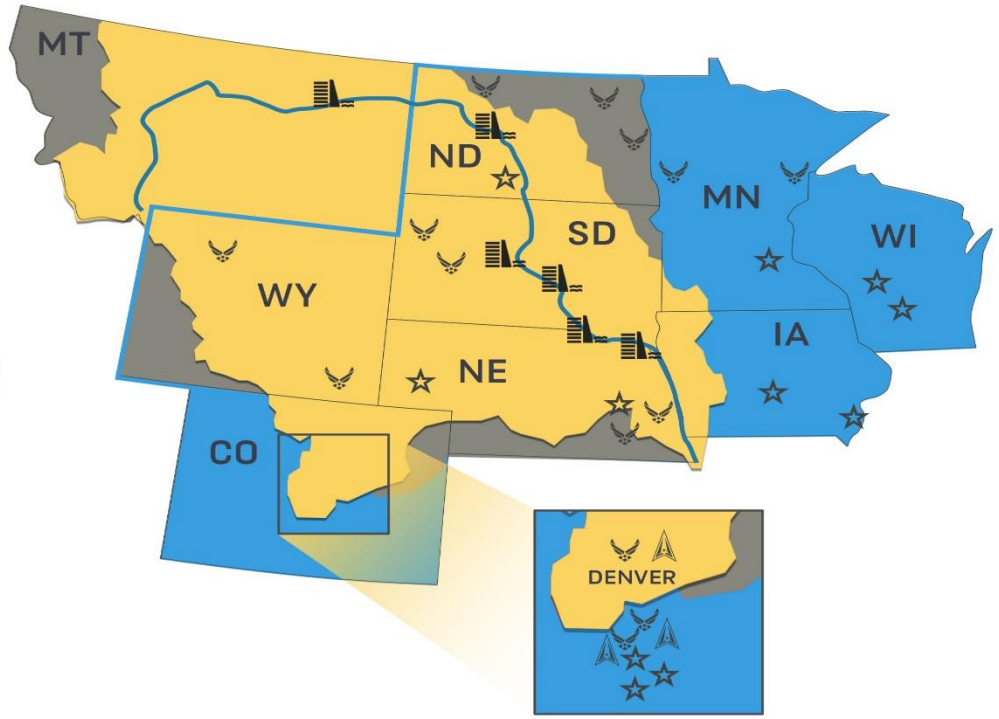
Through collaboration with our partners, the Omaha District delivers vital engineering solutions to secure the nation both nationally and internationally, energize the economy, reduce disaster risk, protect our environment, and manage water resources.

CIVIL WORKS

REGULATORY

MILITARY

MAJOR DAM



1,450+ EMPLOYEES

$3+ BILLION PROGRAM

50+ RECOGNIZED TRIBES

LARGEST CORPS DISTRICT (CONTINENTAL U.S.)

122 COUNTRIES

26 MILITARY INSTALLATIONS

CIVIL WORKS

Challenging and varied mission areas that include risk management, hydropower production, emergency management, ecosystem restoration, cultural resource protection, navigation support and a robust regulatory responsibility.

$500M

MILITARY CONSTRUCTION

Vital district function that provides design, construction, and revitalization of facilities essential to our Nation's defense. We routinely support overseas contingency operation while supporting and meeting the needs of our 26 military installations.

$1.2B

ENVIRONMENTAL REMEDIATION

Important mission area that reduces environmental contamination risk by protecting human health and restoring damaged ecosystems. This essential program focuses on the cleanup of contaminated sites across a variety of federal programs. Omaha District supports more than 550 projects across 41 states.

$250M

SPECIAL PROJECTS

Agile and flexible program that provides cost-reimbursable support to other federal agencies in the field of homeland security and defense, rapid disaster and infrastructure response technical expertise in DoD fueling systems.

$1.3B

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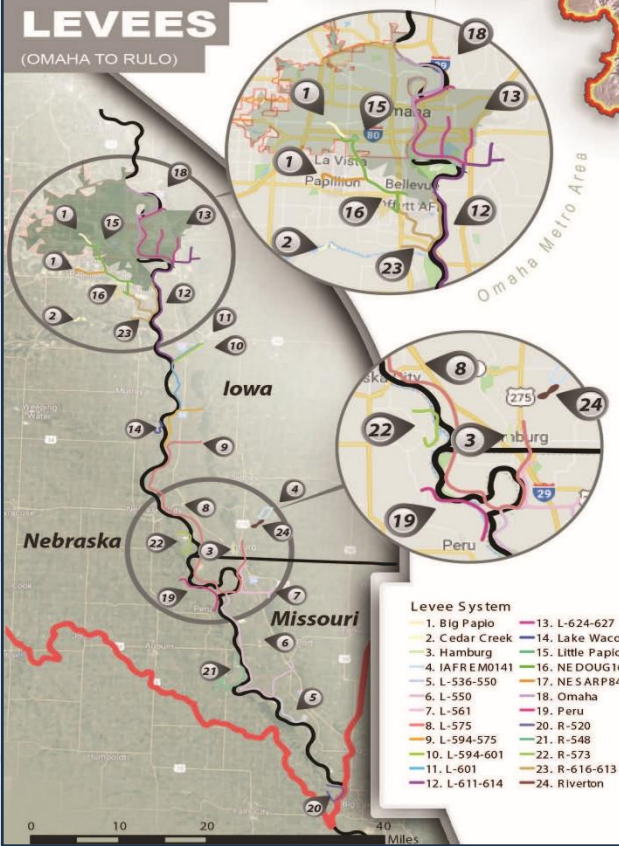
OPERATIONS DIVISION
PERSONNEL

OMAHA DISTRICT LEVEES
(OMAHA TO RULO)



DISTRIBUTION BY STATE

Montana - 52	North Dakota - 59
Wyoming - 5	South Dakota - 130
Colorado - 17	Nebraska - 123

Omaha District Mission
The Omaha District delivers quality engineering solutions in a timely and cost-effective manner, through collaboration with our partners, to secure our Nation, energize our economy, reduce disaster risk, protect our environment, and manage our water resources.

Omaha District Vision
Engineering solutions for the Nation's toughest challenges in order to be the Federal engineer of choice.

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ARMY VALUES
LOYALTY
DUTY
RESPECT
HONOR
INTEGRITY
SELFLESS SERVICE
PERSONAL COURAGE

US Army Corps of Engineers®
Omaha District

OPERATIONS

FLOOD RISK: Managing water for hydropower, wildlife, navigation, recreation, water supply and flood risk.

27 Dams and storage reservoir projects to reduce flood risks
$15.3 Billion in Flood Damages Prevented Since Construction
72M+ Acre-ft. storage

RECREATION: Providing safe quality public outdoor recreation experiences.

238 Recreation areas
75+M Visitor hours
154+ Volunteers
2 Class A visitor centers

ENVIRONMENTAL STEWARDSHIP: Managing and conserving natural resources consistent with ecosystem management principles

1.5M+ Acres of fee-owned property
6000+ Shoreline miles
5000+ Cultural Resource Sites
29 Federally recognized Indian tribes

REGULATORY: Protecting the Nation's aquatic resources, while allowing reasonable development.

4000+ Annual Section 404/10 Permits
600+ Jurisdiction determinations annually
500 Annual acres of wetland restoration
90% National permits within 60 days

HYDROPOWER: Providing clean, renewable energy

6 Missouri River Plants
36 Turbines with 2,501 MW Installed Capacity
11% of Total USACE Capacity
$223 Million Average Market Value

NAVIGATION: Improving and maintaining navigation for economic development and safety.

3000+ River Structures Maintained
236 Miles of Inland Navigation
20 Million ton-miles commerce annually

EMERGENCY MANAGEMENT: Dedicated support to emergency response within the nation and beyond.

3000+ Emergency Response Volunteers
49 Response Actions since 2010

MAIN STEM RESERVOIR SYSTEM

Fort Peck Dam

Construction start 1933
Construction complete . . . 1940
Construction cost . . . . . .$84 million*
Type . . . . . .Hydraulic earth filled

Fort Peck Powerplant
Total generating
capacity . . . . . 185,250 kilowatts
Number of generators 5
Type of unit turbine . . . . . .Francis

Fort Peck Lake
Length . . . . . .134 miles
Maximum depth . . . . . 220 feet
Storage capacity . . . . . .18.688 million acre-feet

Big Bend Dam

Construction start 1959
Construction complete . . . 1963
Construction cost . . . . . $107.2 million*
Type . . . . . .Rolled earth

Big Bend Dam Power House
Total generating
capacity . . . . . .517,470 kilowatts
Number of units. 8
Type of unit turbine . . . . . .Propeller

Lake Sharpe
Reservoir Length . . . . . 80 miles
Shoreline . . . . . .200 miles

Garrison Dam

Construction start 1946
Construction complete . 1960
Construction cost . . . . .$284.2 million*
Type . . . . . Rolled earth

Garrison Dam Power House
Total generating
capacity . . . . . .583,300 kilowatts
Number of units 5
Type of units . . . . . Francis

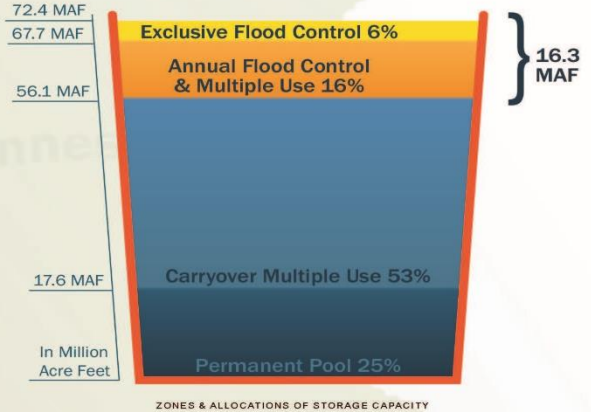
Lake Sakakawea
Reservoir Length . . . . . 178 miles
Shoreline . . . . . .1,884 miles

Oahe Dam

Construction start 1948
Construction complete. . 1958
Construction cost . . . . . .$345 million*
Type . . . . . .Rolled earth

Oahe Powerplant
Total generating
capacity . . . . . 786,030 kilowatts
Number of units. 7
Type of units . . . . . .Francis

Lake Oahe
Water surface . . . . . .370,000 acres
Reservoir Length . . . . . .231 miles
Maximum depth . . . . . .205 feet
Shoreline . . . . . 2,250 miles



ZONES & ALLOCATIONS OF STORAGE CAPACITY

TRI-LAKES

Cherry Creek Dam

Type . . . . . Rolled earth fill
Height . . . . . .141 feet
Width of crest . . . . . .30 feet
Spillway type . . . . . Open channel
Length . . . . . .14,300 feet

Chatfield Dam

Type . . . . . Rolled earth fill
Height . . . . . .147 feet
Width of crest . . . . . .30 feet
Spillway type . . . . . Ungated chute
Length . . . . . .13,136 feet

Bear Creek Dam

Type . . . . . Rolled earth fill
Height main embankment . 179.5 feet
Height south embankment .65 feet
Width of crest main
embankment . . . . . .30 feet
Width of crest south
embankment . . . . . .30 feet
Spillway type . . . . . Earthen cut
Length main embankment .5,300 feet
Length south embankment. 2,100 feet

Fort Randall Dam

Construction start 1946
Construction complete . . .1956
Construction cost . . . . . $200 million*
(including Lake Francis encasement)
Type . . . . . .Rolled earth

Fort Randall Powerplant
Total generating capacity. 320,000 kilowatts
Number of units 8
Types of units . . . . . .Francis

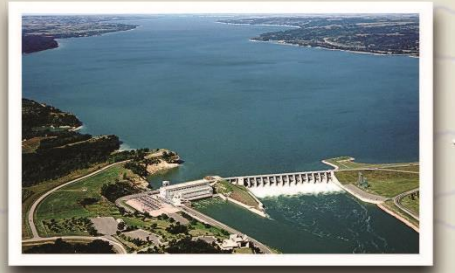
Lake Francis Case
Water surface
(at max. pool) . . . . . .102,000 acres
Reservoir length
(at normal pool) . . . . . 107 miles
Maximum depth . . . . . .140 feet
Shoreline length . . . . . .540 miles

Gavins Point Dam

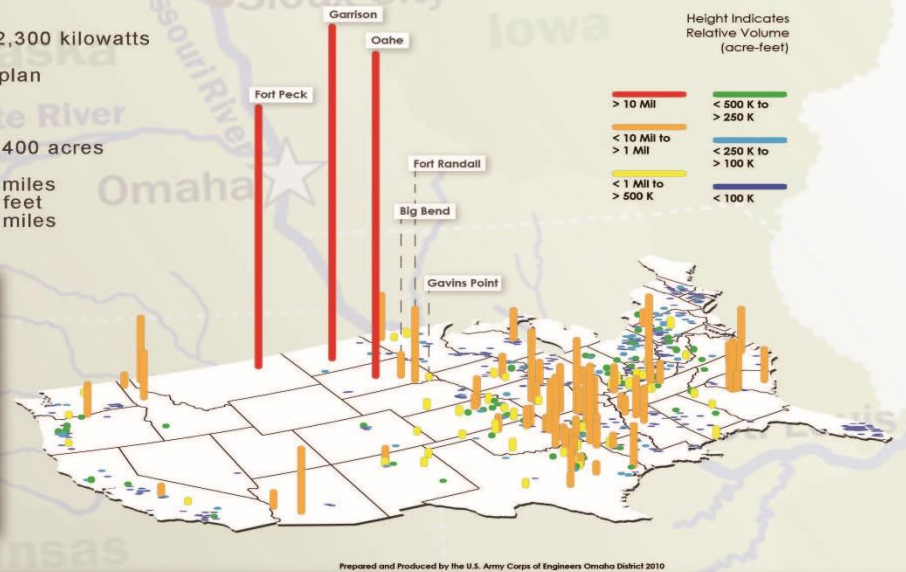
Construction start 1952
Construction complete 1957
Construction cost . . . . . $50 million*
Type . . . . . .Rolled earth and chalk fill

Gavins Point Powerplant
Total generating capacity . .132,300 kilowatts
Number of units 3
Types of units . . . . . .Kaplan

Lewis and Clark Lake
Water surface
(at max. pool) . . . . . 31,400 acres
Reservoir length
(at normal pool) . . . . . 28 miles
Maximum depth . . . . . .45 feet
Shoreline length . . . . . 90 miles



Storage Capacity of Corps Reservoirs

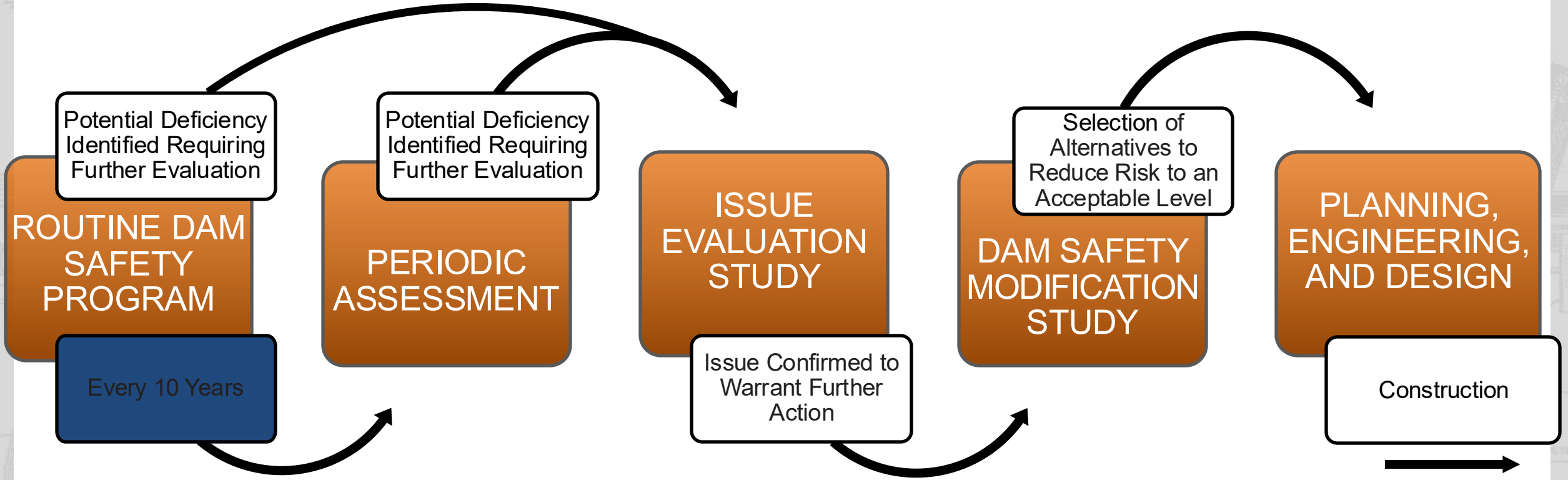


Prepared and Produced by the U.S. Army Corps of Engineers Omaha District 2010

* Cost at time of constrction

HOW DOES USACE MANAGE DAM SAFETY RISK?

- U.S. Army Corps of Engineers dam safety risk management process:



Public Safety is the #1 Priority in the USACE Dam Safety Program

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Garrison DSM Scope Overview

- 2023 DSMR Selected Plan (RMP 12) includes:
  - Drainage system abandonment and replacement
  - Lower chute and stilling basin modifications (mass concrete and CRC)
  - Upper and lower chute CRC overlay
  - Deflector beam to deflect nappe off gates
  - Spillway gate trunnion hub modifications
  - Seal abutment monoliths
  - Concrete armoring behind chute walls
  - ALARP Gate De-icing measures
  - ALARP West Abutment Lignite Drain

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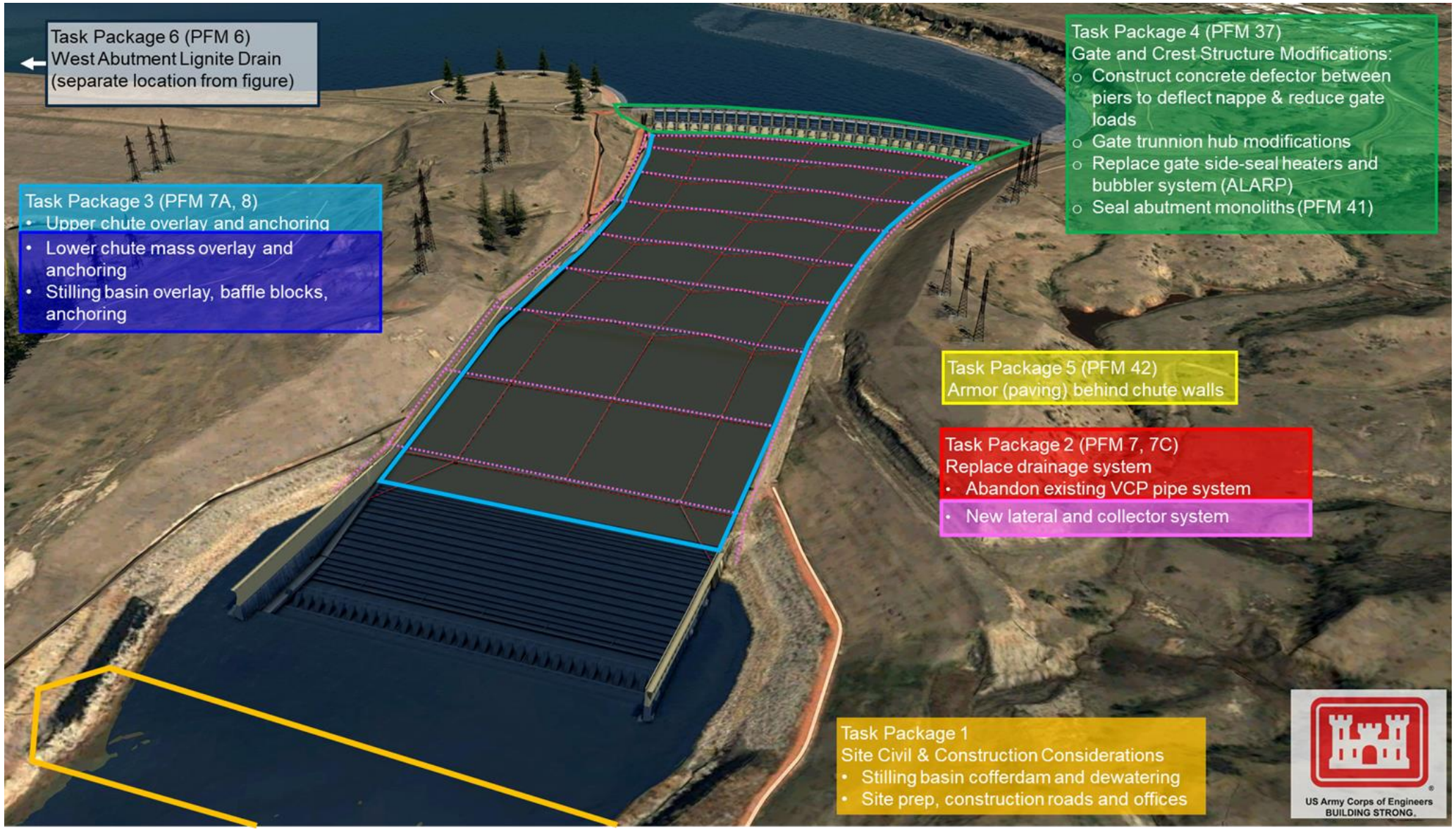
Garrison DSM Task Package



Geotech Investigation Programs

Investigation	Description	Performed by	Field Year	Status
Topographic Surveys	Improved topographic information	NWO Survey Crew	FY23	Complete
Geotechnical Investigation Phase 1	Geotechnical properties (9 borings)	AE (Stantec)	FY23	Complete
Pumping Tests	Cofferdam dewatering feasibility	NWO Drill Crew	FY24	Complete
Anchor Test Program Phase 1	3 test anchors with instrumentation to determine potential parameters for anchor design	Stantec	FY24	Complete
On-Site Aggregate Investigation	Identifying concrete materials aggregate sources	PDT	FY25	Complete
Frost Blanket Investigation	Geotechnical properties of spillway frost blanket	NWO Drill Crew	FY25	Complete
WALD Investigation	Geotechnical properties for WALD Design	NWO Drill Crew	FY25	Complete
Drainage System Measurements	Spillway drain inspection and monitoring	PDT	FY25	Complete
Anchor Test Program Phase 2	12 test anchors with instrumentation to determine potential parameters for anchor design	Nicholson	FY25	On-going
Stilling Basin Drainage Dive	Spillway drain inspection and monitoring	USACE Dive Team	FY25	Complete
Concrete Materials Survey	Identifying concrete materials aggregate sources	Stantec	FY25 / 26	On-going
Spillway Drain Video Inspection (Lat 1/2)	Identifying flaws in Lateral 1 and 2 drain system	NOW	FY 26	Complete
Phase 1B Mix Design and Thermal Studies	Concrete materials initial mix design and thermal study	USBR	FY26	Upcoming
Anchor Test Program Phase 2B / 3	Anchor design field testing	TBD	FY 26/27	Upcoming
Spillway Drain Video Inspection (all)	Identifying flaws in drain system	TBD	FY26	Upcoming

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Physical Model Program

On-going

USBR – 1:32 Spillway Ogee Model

Ogee performance, gate loading, hydraulic deflector beam

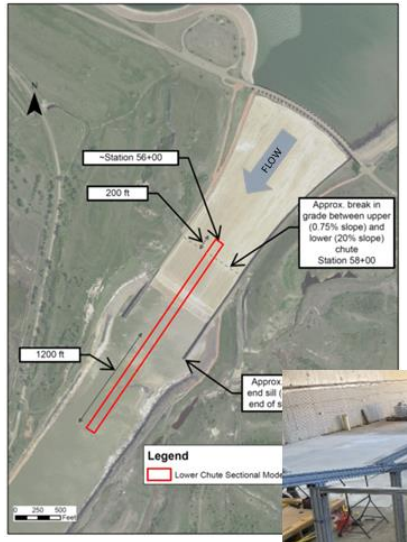
Crest Sectional Model			
Scale 1:_		Prototype	32
Bays		3	3
Width	ft	144	4.5
Length	ft	1,400	44
Height	ft	100	3.1
Discharge (1,150kcfs prototype)	cfs	123,214	21

On-going

CSU – 1:24 Downstream Chute Model

D/S chute and stilling basin alternatives, stilling basin baffle and end sill alternatives

Lower Chute and Stilling Basin Sectional Model			
		Prototype	1:24 Scale Model
Width	ft	96	4
Length	ft	2,500	104
Height	ft	244	10
Discharge	cfs	138,000	49



On-going

ERDC – 1:55 Comprehensive Model

Overall spillway hydraulics

Comprehensive Model			
		Prototype	1:55 Scale Model
			55
Width	ft	3,000	55
Length	ft	8,000	145
Height	ft	270	5
Discharge	cfs	1,150,000	51

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Budget & Schedule

$1.8B - Current Total Project Costs (Fully Funded*)

- $114M – Pre Construction Engineering and Design (PED) - $30M obligated to date
- $1.5B - Construction
- $143M - S&A
- $53M - EDC/PIE/Closeout

35% package

We are here

Change management, implement MCC plan, multiple contracts with individual 100% PED and Construction schedules (some in sequence, potential for concurrent)

Garrison PED and Construction Schedule
Last Updated 1 OCT 2024

Phase	2023	2024	2025	2026	2027	2028	2029	2030	2031-2037	Start Date	End Date	Duration (Months)	Duration (Years)
PED										6/26/2023	5/10/2030	83	6.9
Investigations / testing										6/26/2023	11/25/2028	65	5.4
35% Design										6/26/2023	1/6/2027	42	3.5
65% Design										1/11/2027	12/22/2028	23	1.9
95% Design										1/3/2029	11/29/2029	11	0.9
100% Design										12/11/2029	5/10/2030	5	0.4
Contracting										12/11/2029	3/6/2031	15	1.2
RTA										12/11/2029	1/10/2030	1	0.1
2 Phase RFP										1/10/2030	11/6/2030	10	0.8
Phase 1 (start at end of 95%)										12/11/2029	3/11/2030	3	0.2
Phase 2 (100% Docs - Price Proposal)										4/10/2030	10/7/2030	6	0.5
Award Construction Contract										11/6/2030	3/6/2031	4	0.3
Construction										3/6/2031	10/4/2036	67	5.6
Post-Construction and Closeout										10/4/2036	10/31/2037	13	1.1

Current Schedule (Fully Funded*):

Milestone	Current P2
15% Design Complete	11/4/2025
35%	5/13/2027
Investigations Complete	12/29/2028
65%	5/2/2029
RTA	9/18/2030
Award	1/13/2031
Construction Start	1/14/2031
Construction Complete	3/13/2037

*Potential for significant increases to project costs and schedule post-35% design if funding constraints necessitate a Multiple Construction Contracts (MCC) approach. PDT working to better estimate these potential cost and schedule impacts.

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OAHE ISSUE EVALUATION STUDY (IES) UPDATE

Oahe Dam Project Risk was briefed to USACE Dam Senior Oversight Group (DSOG) in October 2024:

- DSOG endorsed proceeding with Dam Safety Modification Study (DSMS) to address intolerable risk posed by:
  - Spillway Erosion
  - Embankment Cracking Leading to Concentrated Leak Erosion
  - Embankment Instability
  - Embankment Overtopping
- DSMS kick-off work began in Spring 2025, but was suspended due to Risk Management Center and Dam Safety Center staffing shortages (Deferred Resignation Program)

IES Completion Schedule

Complete Draft Report	January 2026
DQC & ATR Reviews	January-March 2026
QCC Review	March-April 2026
DSOG Briefing	April 2026

DSMS Schedule:

Estimated DSMS Kick-Off	Summer 2026
Estimated DSMS Completion	Summer 2028
Estimated Start of Preconstruction Engineering & Design	Fall 2028

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Ft Randall Rotor Removal

https://youtu.be/yEuhtHztXIA

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