



# Coal Combustion Residual Emergency Action Plan Amendment

*Laramie River Station*



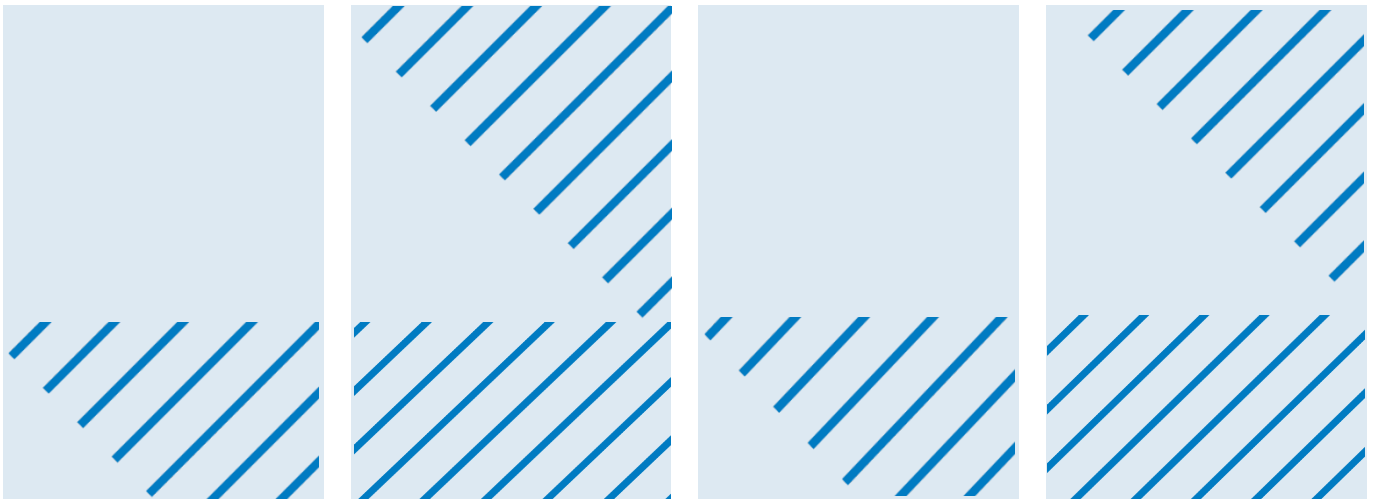
Prepared for  
Basin Electric Power Cooperative

Prepared by  
Barr Engineering Co.

January 2026

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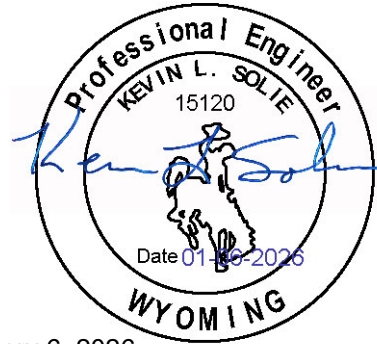
## Certification

I hereby certify that I, or my agent, have examined the facility plans, specifications, and construction records, and, being familiar with the provisions of 40 CFR Part 257 Subpart D and Wyoming Department of Environmental Quality, Division of Solid and Hazardous Waste Management, Chapter 18 rules, attest that the Emergency Action Plan Amendment for Laramie River Station Coal Combustion Residual Surface Impoundments is in accordance with good engineering practice, including consideration of applicable industry standards and the requirements set forth in 40 CFR § 257.73(a)(3)(ii) and 40 CFR § 257.73(a)(3)(iv).



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Kevin L. Solie  
Wyoming PE: 15120



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January 6, 2026  
Date



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January 2026

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# 1 Background

This document is an amendment to the previously issued Emergency Action Plan (EAP) and describes the changes in site conditions that result in reduced risk from the catastrophic failure of surface impoundments at Laramie River Station (LRS). LRS is owned by Missouri Basin Power Project (MBPP) and operated by Basin Electric Power Cooperative (Basin Electric). LRS consists of three 570-megawatt (MW) coal-fired units located approximately five miles northeast of Wheatland in Platte County, Wyoming. The operation of LRS results in the production of Coal Combustion Residuals (CCRs). CCRs generated at LRS and thus regulated under 40 CFR Part 257 (CCR Rule) include bottom ash, flue gas desulfurization (FGD) materials, and fly ash.

Five CCR surface impoundments are present at LRS. The Bottom Ash Pond complex is comprised of three cells (1, 2, and 3) and the Emergency Holding Pond complex is comprised of two cells (East and West). For the purposes of this report, the CCR surface impoundments at LRS will be referred to as Bottom Ash Pond 1, Bottom Ash Pond 2, Bottom Ash Pond 3, East Emergency Holding Pond and West Emergency Holding Pond.

Basin Electric completed the retrofit (or partial retrofit and closure) of the five existing surface impoundments at LRS between 2020 and 2025. Retrofit plans were prepared in accordance with 40 CFR § 257.102(k) and notifications of Intent to Retrofit were prepared in accordance with 40 CFR § 257.102. The above-referenced documents were posted to Basin Electric's CCR Rule Compliance Information website when they became available. Completion of Retrofit certifications were also prepared and posted to Basin Electric's CCR Rule Compliance Information website as required.

The LRS surface impoundments were determined to be high hazard potential CCR impoundments per § 257.73 of the CCR Rule. Accordingly, an Emergency Action Plan (EAP) for the LRS surface impoundments was prepared and placed into the operating record of each surface impoundment in April 2017. The EAP was reevaluated, minor updates noted and reissued in September 2023. This is an amendment to the EAP.

## 2 Purpose

The 2017 and 2023 EAPs each provided estimates for the maximum volume of impounded CCRs and liquids at LRS. In the time since the original EAP was issued, retrofit and partial closure activities have reduced the maximum possible storage volumes of impounded CCRs and liquids. The owner or operator of a CCR unit may amend the written EAP at any time and the EAP must be amended whenever there is a change in conditions that would substantially affect the EAP in effect. In accordance with 40 CFR § 257.73(a)(3)(ii), the purpose of this addendum is to document the decrease in maximum potential CCR and liquid storage volume at LRS and to document the assumptions in previous EAPs are conservative (i.e., overestimate the area of inundation). These changes are positive for the facility; in the highly unlikely scenario of a catastrophic failure there is less volume that would be released to the environment. This EAP amendment also provides an update to the contact information contained in the available resources and notification flow charts.

### 3 Discussion and Conclusion

The initial EAP indicates total capacity of the five LRS impoundments to be approximately 3,554 acre-feet. The initial EAP included Hydraulic Shadow Maps (flood inundation maps) to identify areas that would be impacted by a breach in the impoundments. As a result of LRS retrofit and partial closure activities, the maximum potential storage capacity of LRS ponds has been significantly reduced. The 2023 EAP indicates maximum LRS storage capacity to be 2,746 acre-feet, or about 77% of the original estimate used to develop flood inundation maps. In 2025, the East Lobe of the East Emergency Holding Pond was closed by removal, further reducing potential onsite storage volumes by approximately 140 acre-feet. As a result, the maximum potential storage volume (inclusive of all five surface impoundments) was reduced to approximately 2,606 acre-feet. Given flood inundation maps included in the initial and subsequent EAPs were based on a release from a 3,554 acre-feet maximum impounded volume at LRS, the current EAP overestimates the area that would be impacted by a release of CCRs and liquids and thus presents a conservative and protective result. At this time, Basin Electric has chosen to forgo generating new modeling and maps and continue to rely upon these conservative maps for implementing the EAP as they are more protective.

## 4 Recordkeeping and Reporting

Basin Electric will maintain a copy of the EAP Amendment and certification in the facility's operating record in accordance with 40 CFR § 257.105 (Recordkeeping Requirements) and this document will be made publicly available on the Basin Electric CCR web site in compliance with 40 CFR § 257.107 (Publicly Accessible Internet Site Requirements). Notification will be sent to the WYDEQ State Director in compliance with 40 CFR § 257.106 (Notification Requirements) and other agencies as required.

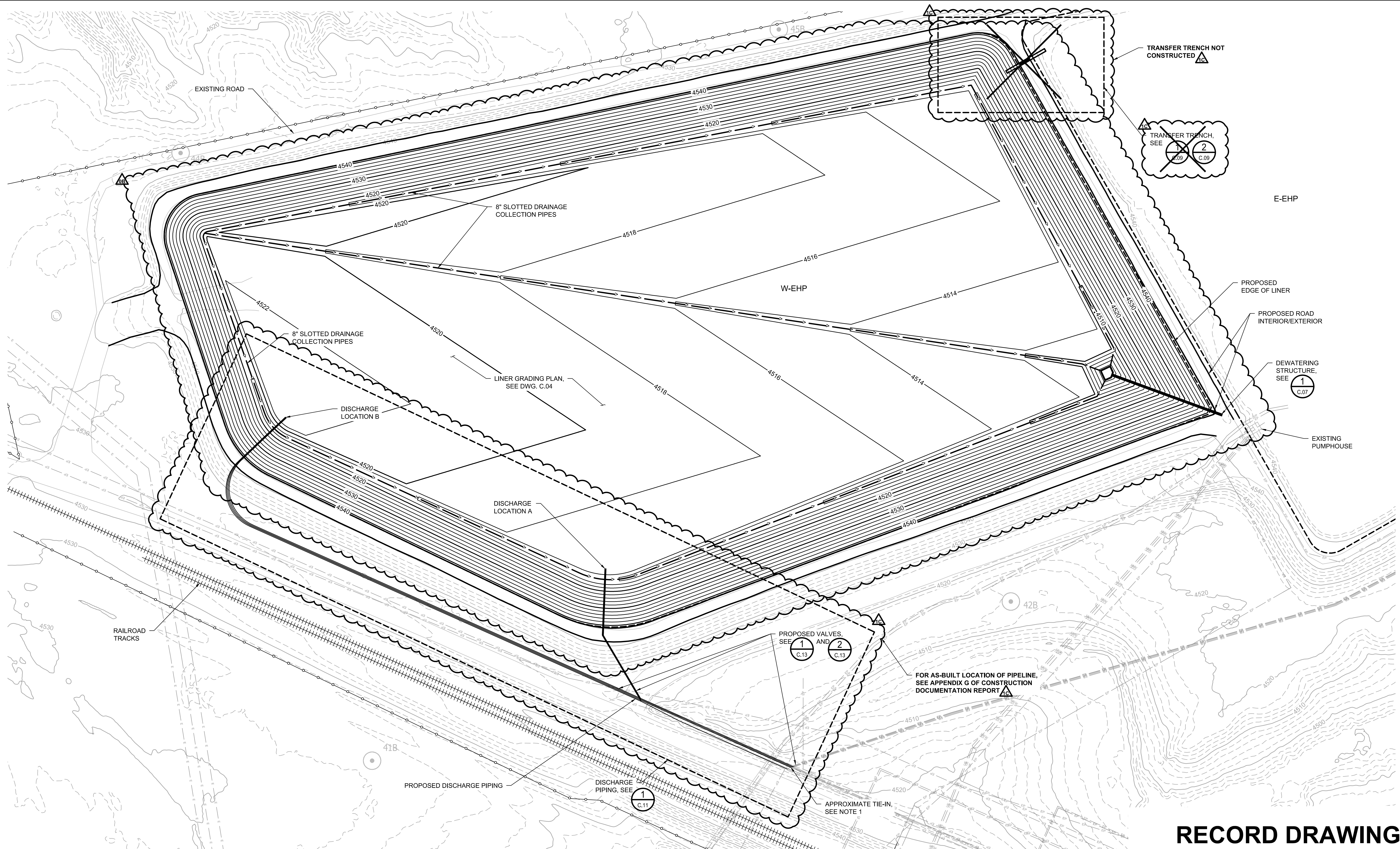


## **Attachment A**

### **West Emergency Holding Pond Record Drawing**



\\02380 CAD USER: LUKAS D. ELLERSON FILE: M:\DESIGN\50161006\035016100603 LRS CY 002 W-EHP C-03.DWG PLOT SCALE: 1:1 PLOT DATE: 12/20/2025 3:59 PM



#### LEGEND - PLAN

— 4540 —	EXISTING MAJOR 10' CONTOUR
- - - 4540 - - -	EXISTING MINOR 2' CONTOUR
— 4540 —	PROPOSED MAJOR 10' CONTOUR
- - - 4540 - - -	PROPOSED MINOR 2' CONTOUR
	RAILROAD TRACKS
- w - w - w -	WATER LINE
- o - o - o -	FENCE LINE
- > - > - > -	DRAINAGE COLLECTION PIPES
- - - - -	PROPOSED EDGE OF LINER
○ 44B	GROUNDWATER MONITORING WELLS

1 PLAN: W-EHP PROJECT LAYOUT

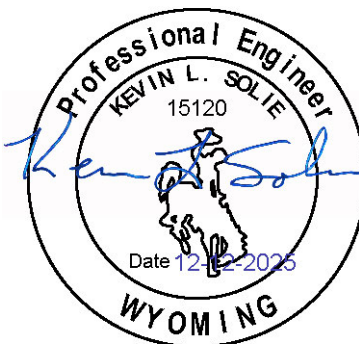
0 80 160

SCALE IN FEET



#### NOTES:

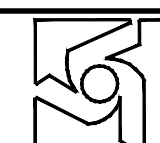
- CONTRACTOR TO VERIFY TIE-IN LOCATIONS IN THE FIELD WITH OWNER.
- AS-BUILT TOPOGRAPHY AND PIPE LOCATIONS WERE SURVEYED BY INTERSTATE ENGINEERING. SEE APPENDIX G OF CONSTRUCTION DOCUMENTATION REPORT.



1C	RECORD DRAWINGS	LDE	SWH	KLS	12/12/25
1B	IFC REV. 1	LDE	SWH	KLS	05/30/25
0B	ISSUED FOR CONSTRUCTION	LDE	SWH	AWK	04/21/25
0A	ISSUED FOR BID	BNM	SWH	KLS	12/13/24
REV.	DESCRIPTION	DRWN	DSGN	APPD	DATE

REFERENCE DRAWINGS		FACILITY: LRS - LARAMIE RIVER STATION		DESIGN BY: SWH	12/12/25
LRS-CY-002-0106		FACILITY UNIT/COMPLEX/SITE NUMBER: 0		DRAWN BY: LDE	12/12/25
		CONTRACT/TELECOM LOOP:		DESIGN CHK: KLS	12/12/25
		W-EHP RETROFIT PROJECT LAYOUT PLAN		DRAFT CHK: AWK	12/12/25
				APPROVED: KLS	12/12/25
				SCALE: AS SHOWN	
				VENDOR NAME:	
				VENDOR NUMBER: C.03	ORIGINAL REV
				ENG DRAWING NUMBER	REV. NO.
				LRS-CY-002-0109	1C

RECORD DRAWINGS  
12/12/2025



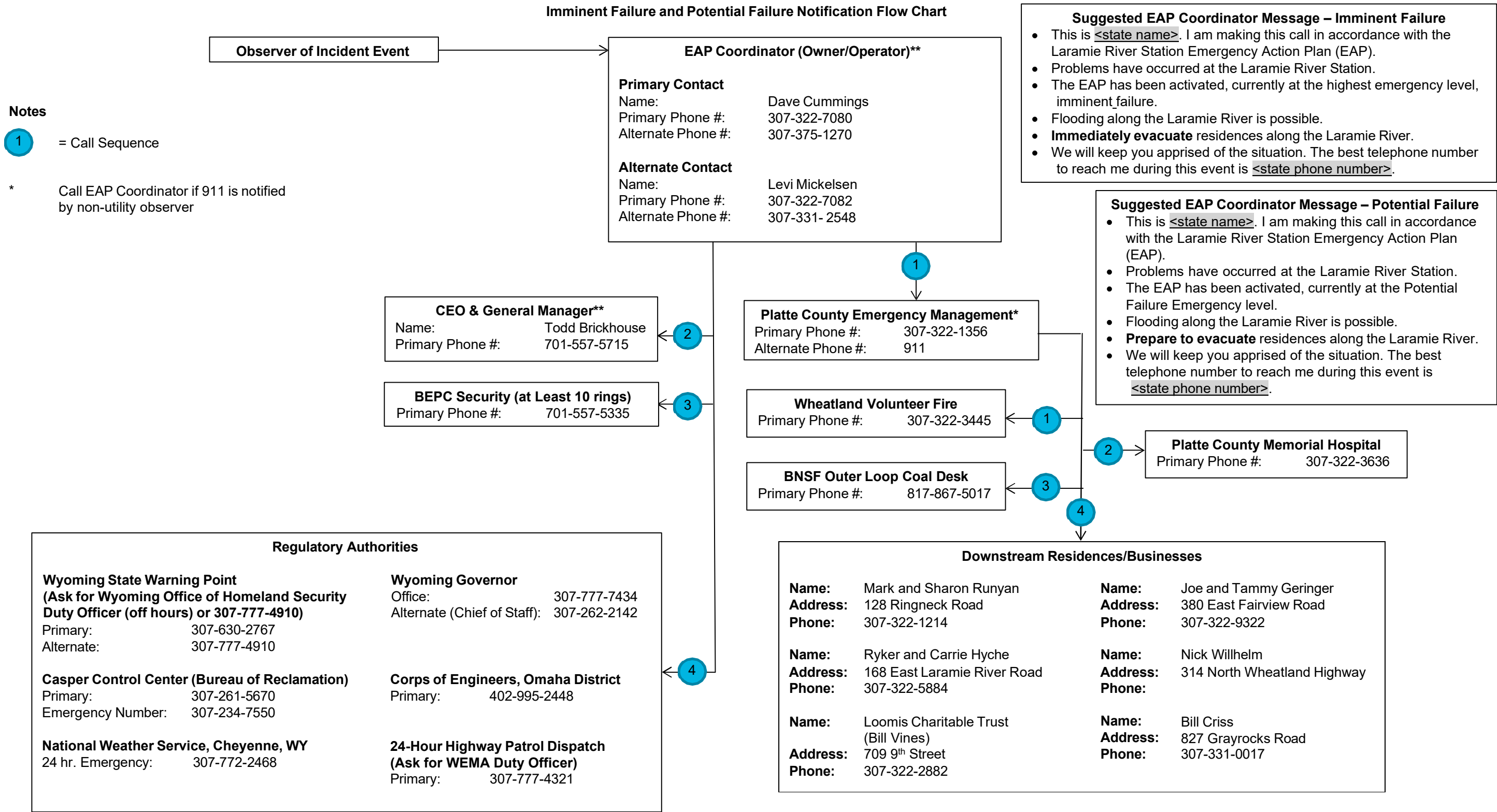
**BASIN ELECTRIC  
POWER COOPERATIVE**  
A Touchstone Energy Cooperative



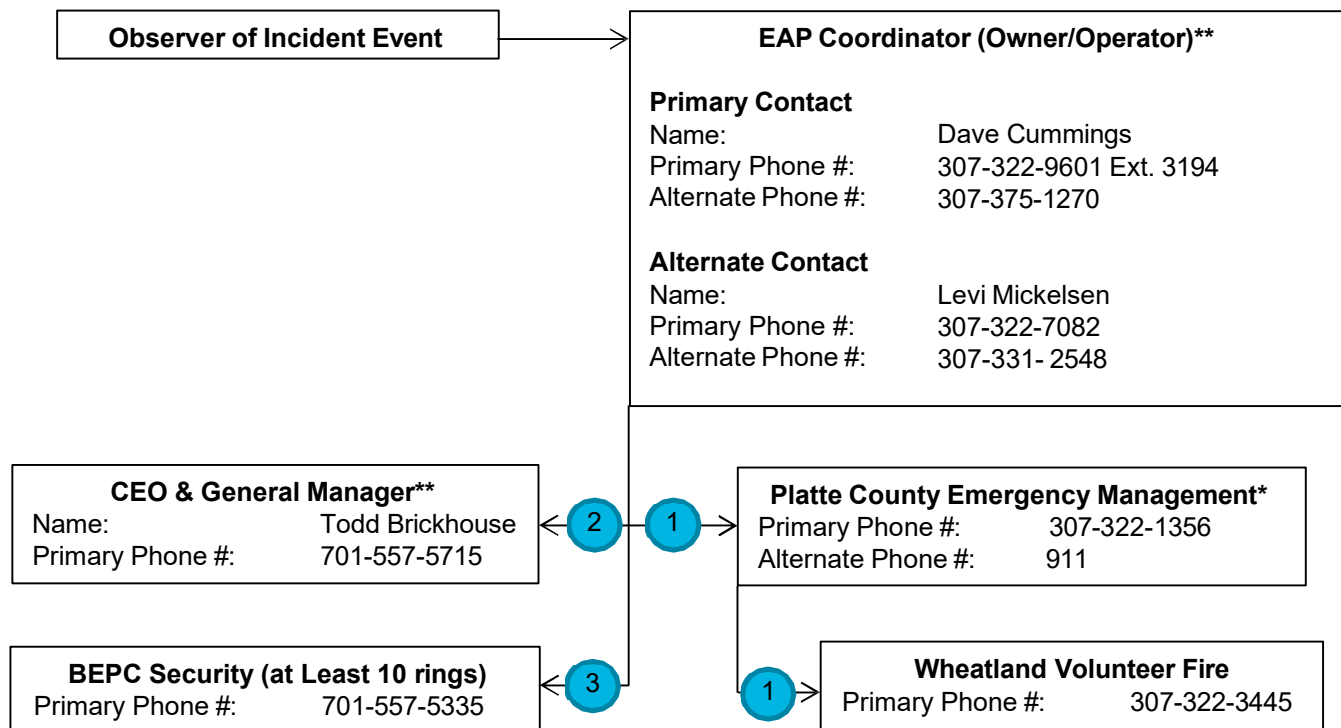


## **Attachment B**

### **Updated Notification Flow Charts**



### Non-Failure and High Water Notification Flow Chart



#### Notes

**1** = Call Sequence

\* Call EAP Coordinator if 911 is notified by non-utility observer

#### Suggested EAP Coordinator Message

- This is <state name>. I am making this call in accordance with the Laramie River Station Emergency Action Plan (EAP).
- An incident has been detected at the Laramie RiverStation.
- The EAP has been activated, currently at a <state either: non-failure or high water> incident level.
- The situation is being monitored to determine if any evacuation warnings are necessary.
- We will keep you apprised of the situation. The best telephone number to reach me during this event is <state phone number>.

## **Attachment C**

### **Updated Available Resources Chart**

## Available Resources

Resource	Company Name	Address	Telephone #
Heavy Equipment Service and Rental	Basin Electric – utilize owned equipment stored on-site.		
	Hillside Rental	1851 Oak Street Wheatland, WY 82201	307-322-5900
Sand and Gravel Supply	Alexander Construction Co Inc. (Owner: Lori Hale)	149 Y O Ranch Rd Wheatland, WY	307-322-2278
	Croell Redi Mix	PO Box 787 Wheatland, WY	307-322-3591
	Platte County Concrete & Stone (Owner: Rodger Hollingsworth)	245 South Wheatland Highway Wheatland, WY	307-322-3591
Ready Mix Concrete Supply	Croell Redi Mix	PO Box 787 Wheatland, WY	307-322-3591
	Platte County Concrete & Stone (Owner: Rodger Hollingsworth)	245 South Wheatland Highway Wheatland, WY	307-322-3591
Pumps/Siphons	Hillside Rental	1851 Oak Street Wheatland, WY 82201	307-322-5900
	Adrian Pump	192 W Frontage Rd Wheatland, WY	847-769-7705
	Motion Industries, Inc.	5271 Hitt Boulevard Gillette, WY 82718	307-682-8821
	Sulzer EMS	3382 Bird Drive Gillette, WY 82718	307-682-8733
Diving Contractor	Midco Diving & Marine Services, Inc.	3111 Lien Street Rapid City, SD 57702	1-800-479-1558
	ASI Constructors Inc (ASI)	1850 E. Platteville Blvd. Pueblo West, CO 81007	719-647-2821
Sand Bags	Grainger International (Casper Branch #109)	1110 Wilkins Circle Casper, WY 82601-1331	1-800-472-4643
	Grainger International (Fort Collins Branch #218)	4531 Innovation Dr. Fort Collins, CO 80525-3406	1-800-472-4643
Generators and Emergency Lighting	Hillside Rental	1851 Oak Street Wheatland, WY 82201	307-322-5900
	Sulzer EMS	3382 Bird Drive Gillette, WY 82718	307-682-8733

Additional Resources:

Last Updated: January 2026