



EMERGENCY ACTION PLAN

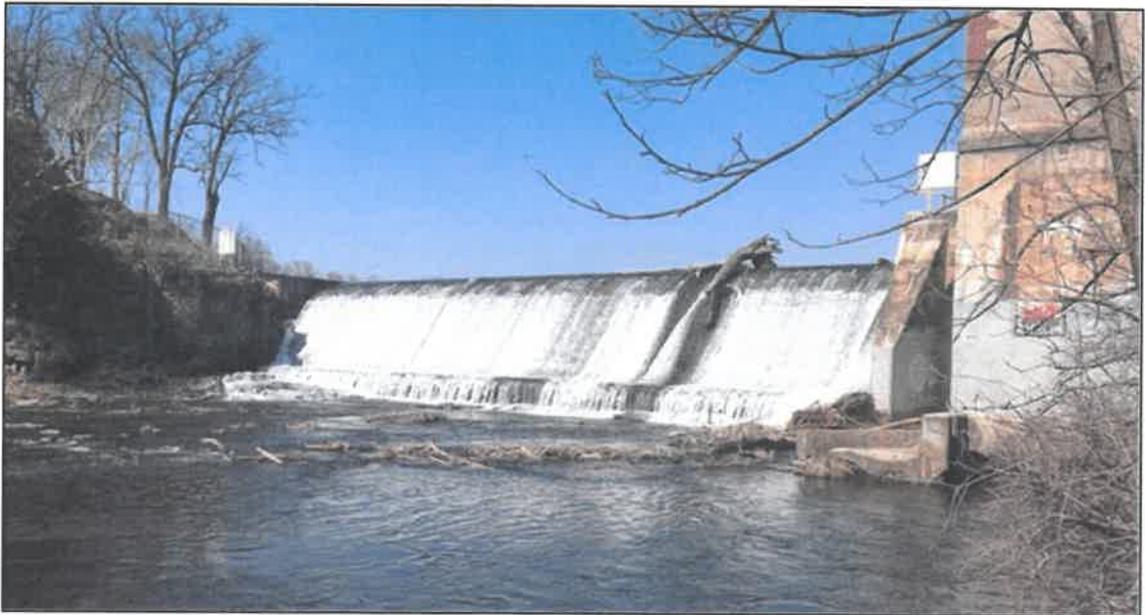
POWELL FALLS HYDROELECTRIC PROJECT

Impoundment: Lake Louise

Kinnickinnic River, Pierce County, Wisconsin

FERC Project No. 10489

National Inventory of Dams No. WI00079



Licensee:

City of River Falls – Wisconsin

222 Lewis Street

River Falls, Wisconsin 54022

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Submitted:

December 13, 2018

TABLE OF CONTENTS

	<u>Page No.</u>
EAP Signatures	iii
A. Summary of EAP Responsibilities	1
Table 1. EAP Responsibilities Summary	1
B. Notification Flowcharts	2
C. Statement of Purpose	4
D. Project Description	5
Figure 1. Vicinity Map	6
Figure 2. Project Features	8
E. EAP Response Process	9
Step 1. Incident Detection, Evaluation and Emergency Level Determination	9
Table 2. Guidance for Determining the Emergency Level	10
Step 2. Notification and Communication	11
Step 3. Emergency Actions	11
Step 4. Termination and Follow-up	11
G. General Responsibilities under the Plan	12
I. Licensee Responsibilities	12
II. Notification and Communication Responsibilities	12
III. Evacuation Responsibilities	13
IV. High Flow Operation and Notification	13
V. Monitoring, Security, Termination, and Follow-Up Responsibilities	13
VI. EAP Coordinator Responsibilities	13
H. Preparedness	14
I. Surveillance and Monitoring	14
II. Evaluation of Detection and Response Timing	15
III. Access to the Site	15
IV. Response During Periods of Darkness	15
V. Response During Weekends and Holidays	15
VI. Response During Periods of Adverse Weather	15
VII. Alternative Sources of Power	15
VIII. Emergency Supplies and Information	15
IX. Training and Exercising	16
X. Alternative Systems of Communication	16
XI. Public Awareness and Communication	16
I. Inundation Maps	17

Part II: Appendices18

Appendix A - Investigation and Analyses of Dam Break Floods

Appendix B - Plans for Training, Exercising, Updating, Posting, and Distributing the EAP

Appendix C - Site-Specific Concerns

Appendix D - Documentation

Appendix E - Approval of the EAP

EAP Signatures

See Appendix E for signatures from parties involved in plan implementation.

Verification: Emergency Action Plan

State of Wisconsin

County of Pierce

The undersigned, being first duly sworn, states that he has read the following document and knows the contents of it, and that all of the statements contained in that document are true and correct, to the best of his knowledge and belief.

Kevin Westhuis
Director, River Falls Municipal Utilities

Sworn to and subscribed before me on this _____ day of _____, 2018.

Notary Public

Expiration Date

(SEAL)

A. Summary of EAP Responsibilities

Table 1 below summarizes the general responsibilities of the City of River Falls (licensee) and the emergency management agencies during an emergency situation.

Table 1. EAP Responsibilities Summary

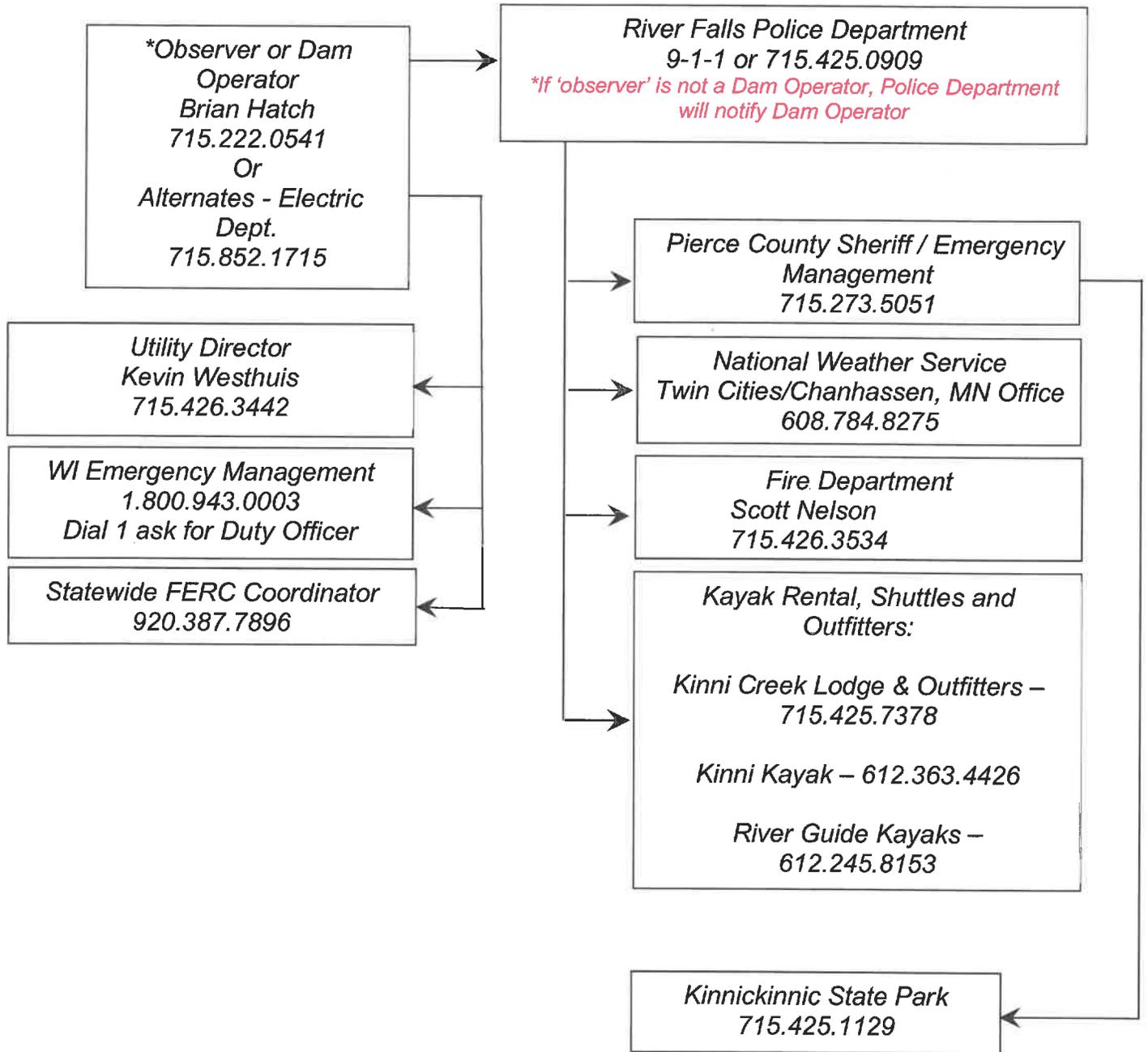
Licensee – City of River Falls	<ol style="list-style-type: none"> 1. Detect and verify the emergency condition at the facility. 2. Notify the emergency management agencies (EMA's) per the notification flowchart. 3. Take mitigative action at the facility including actions at upstream and downstream dams as applicable. 4. Provide status updates to the EMA's throughout the incident. 5. Formally declare termination of the emergency at the dam
City of River Falls Police, Fire & Rescue	<ol style="list-style-type: none"> 1. Receive condition status reports from Licensee. 2. Notify Public within River Falls limits 3. Render assistance to Pierce County as necessary 4. Render assistance to Licensee, as necessary
Pierce County Emergency Services	<ol style="list-style-type: none"> 1. Receive condition status reports from Licensee 2. Notify public within Pierce County 3. Notify persons along the Kinnickinnic River Downstream of dam. 4. Receive status updates from licensee.

B. Notification Flowcharts

This Notification Flowchart must be followed for notification of county communication/dispatch centers, other affected hydro plants, City of River Falls officials, state and federal agencies, and other impacted parties. The flowchart summarizes the sequence of notification for both Imminent Failure and Potential Failure emergency situations at the Powell Falls Hydro plant, defined as:

Imminent Failure: Condition where a failure is imminent or has occurred.

Potential Failure: Condition where a potential failure situation is developing.



C. Statement of Purpose

The purpose of this Emergency Action Plan (EAP) is to provide the owner/operator of the Powell Falls Hydroelectric Project with a clear plan of action when any dam emergency arises, with the intent of safeguarding the lives and reducing damage to the property of the citizens living along the Kinnickinnic River. An emergency is identified as any condition which:

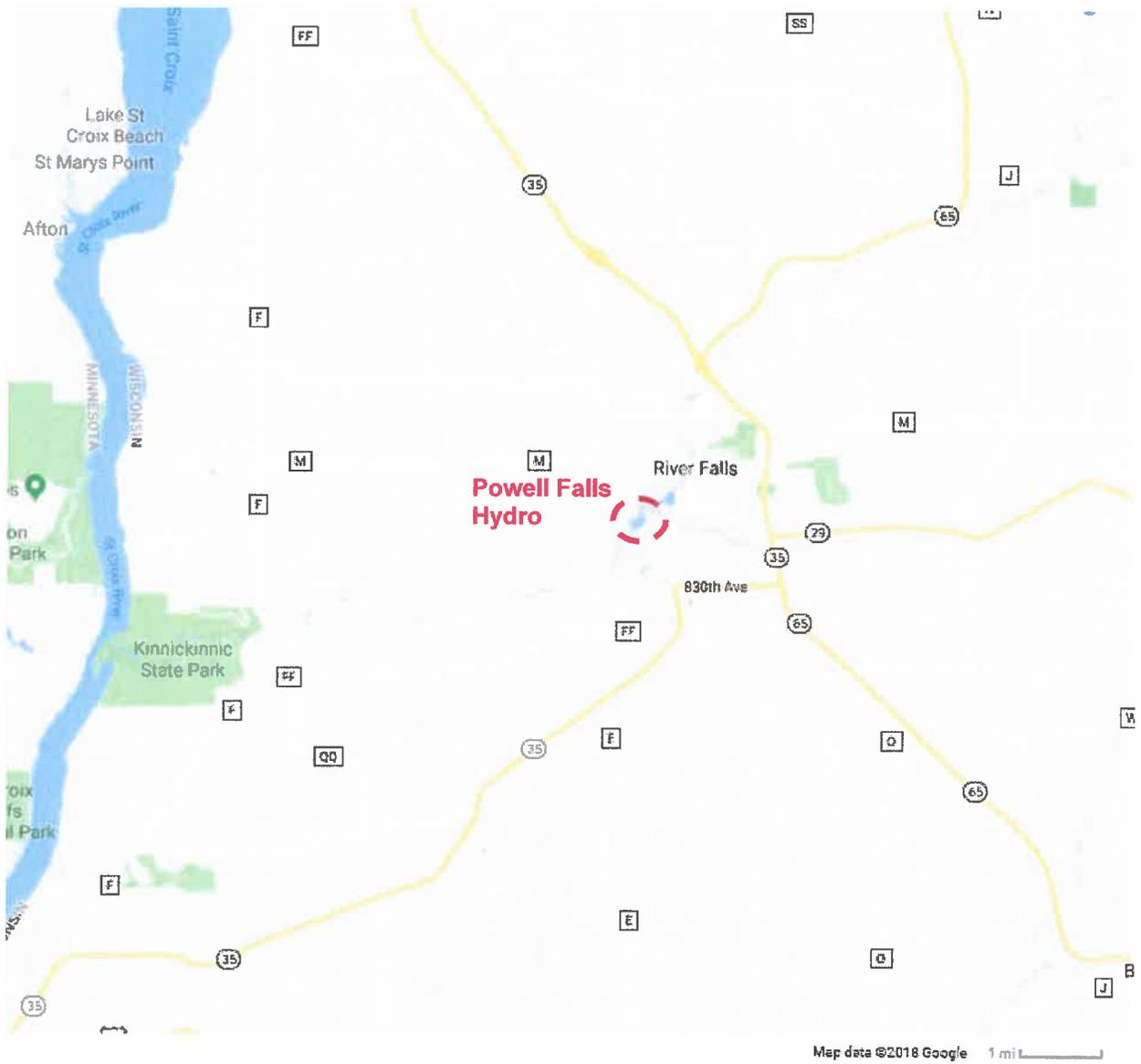
- develops unexpectedly;
- endangers the structural integrity of the dam; and
- could result in the dam's failure producing downstream flooding, requiring immediate action.

This EAP provides information about the dam and contact information for all parties involved in responding to or affected by an emergency at the dam. The EAP outlines what actions are required in the event of an emergency.

D. Project Description

The Powell Falls Hydroelectric Project is located on the Kinnickinnic River in the City of River Falls, Wisconsin which has approximately 15,510 residents (See Figure 1). River Falls is located within Pierce County, Wisconsin. The nearest major population center is the City of Minneapolis, MN with a metropolitan area population of about 3.6 million residents and is located approximately 30 miles west-northwest of the project. A service road off West Park Street / Bartosh Lane in the city of River Falls provides the principal vehicular access to the project.

Figure 1. Vicinity Map



The project is owned and operated by the City of River Falls. Powell Falls is located approximately 0.3 miles downstream from the Junction Falls Hydro Project, which is also owned by the City of River Falls. The Kinnickinnic River watershed above Powell Falls Dam has a drainage area of approximately 116 square miles.

The project structures consist of a 112.5-foot-long uncontrolled ogee-shaped spillway, a gated low-level outlet and a 27-foot-wide integral powerhouse. The low-level outlet is controlled by a 6-foot-square slide gate and is used to regulate releases and provide for dewatering the reservoir, Lake Louise. The powerhouse has a 6-foot-square intake with a surface mounted slide gate which leads to a pressure flume and an open pit type, vertical axis turbine. The normal headwater elevation is 821.8 feet NGVD29 and the maximum height of the dam is 21 feet.

The project is classified as low hazard. The only development downstream from the dam are located 15 feet or more above normal river level. The surface area of the reservoir is approximately 15 acres at normal pool.

Normal pool is maintained by discharging flow through the turbine. Flow exceeding the turbine capacity is passed over the uncontrolled spillway. The outlet works gate would only be opened in the event of extremely high discharges to pass additional flow through the wasteway.

The wasteway and penstock inlet sluice gates are operated with a handwheel or with a motor, pulley and chain system.

Below Powell Falls, the river passes through rural areas for about 8 miles before reaching Kinnickinnic State Park, where it joins the St. Croix River.

The only permanent structure located downstream from Powell Falls Dam is the Pierce County Highway F Bridge located approximately 7.7 miles downstream from Powell Falls. The Kinnickinnic River is a popular kayaking destination with the most common ingress and egress locations just downstream of Powell Falls Dam and just downstream from the CTH F Bridge, respectively.

Lands surrounding Lake Louise (the Powell Falls impoundment) and the dam are lightly developed. The property at the dam and the shoreline is owned by the City of River Falls and remains undeveloped.

Figure 2. Project Features



E. EAP Response Process

Step 1. Incident Detection, Evaluation and Emergency Level Determination

The primary operator is assigned to oversee the daily operation of the Junction Falls and Powell Falls Project sites and is on duty during normal daytime working hours (7:00 a.m. – 3:30 p.m.). The Powell Falls operator lives 10 minutes from the plant and conducts routine surveillance and maintenance. His backup is provided by operators from the City Electric Line Department. There is no remote monitoring, but staff gages and generation specific gages are checked daily or as needed. The Powell Falls plant's generating unit can only be operated manually from onsite. The primary and backup operators are on call 24 hours a day, 365 days a year.

The plant operator would be the most likely person to detect conditions that could result in an emergency situation during most hours. The Powell Falls operator conducts weekly inspections of the Powell Falls Project facilities. The operator also monitors all site-specific instrumentation.

Should any abnormal condition be detected by an observer who calls 911 (who is not the operator) the River Falls police department would contact the dam operator, who would be dispatched to the site (if during unstaffed hours) to investigate further.

Table 2 provides guidance for the emergency levels that may correlate with various conditions or events. This table provides general guidance for determining an emergency level. However, the actual emergency level selected will be based upon observer judgment.

Table 2. Guidance for Determining the Emergency Level

Event	Situation	Emergency Level *
Seepage	New seepage areas with cloudy discharge	Potential
	Seepage with cloudy discharge; increasing flow rate	Imminent
Structural Cracking Structural Failure	Cracks in the structure with seepage	Potential
	Structural component deformation	Imminent
Structural Cracking	Displacement of dam	Imminent
Structural Failure Instruments	Gate failure or malfunction	Potential
	Instrumentation readings beyond predetermined values	N/A-Monitor
Security Threat	Verified bomb threat that, if carried out, could result in damage to the dam	Potential
Instruments	Detonated bomb that has resulted in damage to the dam or appurtenances	Imminent
Sabotage or Vandalism	Modification to the dam or appurtenances that could adversely impact the functioning of the dam	Potential
	Damage to dam or appurtenances that has resulted in leakage flow	Potential

Step 2. Notification and Communication

Upon detection of an emergency situation, the plant operator would notify the River Falls Police Department. All operators and local emergency management officials have the responsibility and training necessary to activate the EAP under Level 1 Imminent Failure and Level 2 Potential Failure conditions.

During both Level 1 (Imminent Failure) and Level 2 (Potential Failure) Emergencies, the operator would immediately notify the River Falls Police Department, then the City of River Falls Utility Director, Wisconsin Emergency Management and the Statewide FERC Coordinator. The City Police Department would immediately contact kayak rental, shuttle and outfitter businesses, the River Falls Fire Department, Pierce County Sheriff (County Emergency Management) and the National Weather Service. The Pierce County Sheriff / County Emergency Management would contact Kinnickinnic State Park. Additional personnel and resources would be directed to the site by emergency personnel listed on the flowcharts.

Step 3. Emergency Actions

In addition to making the required notifications per the notification flowchart, the operator at the site would immediately take actions to procure needed personnel and material and would advise local law enforcement of additional needs. The Utility Director would direct personnel and resources per the request of the operator. In a potential failure situation, the operator, in coordination with the Utility Director and Electrical Superintendent, will evaluate whether a controlled drawdown of the reservoir will relieve stress on the dam and reduce structural damage or downstream risk. If such a drawdown is deemed necessary, the reservoir will be lowered.

Step 4. Termination and Follow-up

Termination of the emergency would be a collaborative decision between the Utility Director and local law enforcement.

After completion of the warning procedure, the dam operator and River Falls Utility Director will assess the damage to the dam and formulate a plan for repair. A follow-up evaluation report shall be developed by and in cooperation with emergency management officials from Pierce County.

G. General Responsibilities under the Plan

I. Licensee Responsibilities

The purpose of the EAP is to clearly outline for the City of River Falls the importance of promptly responding in case of an emergency. The EAP is also intended to clearly define each person's duties in further notification of other response centers, and state and federal agencies. Clear and prompt communication during an emergency may greatly reduce the risk to the public.

The dam operator, when notified of an emergency situation, shall take the following actions:

- 1) Contact the River Falls Police Department so they can notify potential persons in danger downstream and coordinate with other emergency management officials.
- 2) Contact Wisconsin Emergency Management and the Statewide FERC Coordinator and provide updates on the emergency.
- 3) Contact the River Falls Utility Director so that decisions can be made for remedial actions.

Upon implementation of the EAP, the dam operator and/or River Falls Utility Director will communicate, as needed, with emergency management officials for the duration of the event.

II. Notification and Communication Responsibilities

Notification responsibilities shall follow the procedures outlined in the flowchart found in Section B of this EAP.

The dam operator or observer will notify the River Falls Police Department who will notify additional emergency management authorities. If the observer is not the dam operator, the River Falls Police Department will also notify the dam operator. The dam operator will notify the River Falls Utility Director, Wisconsin Emergency Management and the Statewide FERC Coordinator.

The National Weather Service (Chanhassen/Twin Cities, MN Weather Forecast Office) shall issue flood watches or warnings in the case of an Imminent or Potential Emergency.

The River Falls Utility Director and local emergency management authorities shall coordinate interaction with the media in order to disseminate information and handle inquiries.

III. Evacuation Responsibilities

Local and county emergency services will initiate their respective notification and evacuation procedures. Evacuation should include all residents within or near the inundated areas (shown on the inundation maps in Section C). Evacuation should also include kayakers/boaters on the downstream reach and visitors at Kinnickinnic State Park.

IV. High Flow Operation and Notification

Flood flows pass over the uncontrolled spillway and cannot be significantly controlled by the outlet operations. As the municipal utility, the licensee monitors all its infrastructure closely during extreme floods and coordinates information and operation with emergency management agencies.

V. Monitoring, Security, Termination, and Follow-Up Responsibilities

Throughout the duration of the failure or hazardous condition, the dam operator and/or Utilities Director will be at the dam monitoring the situation. Local authorities will be kept informed of developing conditions at the dam from the time that the emergency starts until the emergency has ended. To assist with communications the operator and/or River Falls Utilities Director will communicate as needed with city and county emergency management officials.

Security of the plant and surrounding area would be handled by local and county law enforcement agencies.

Termination of the emergency would be a collaborative decision between the dam operator, Utilities Director and local emergency management officials.

After termination of an emergency, a qualified civil engineer will assess the damage to the dam and formulate a plan for repair. Additionally, a follow-up evaluation shall be conducted in cooperation with emergency management officials from Pierce County after the emergency. This evaluation shall address events prior to, during, and following the emergency; significant actions taken by each participant; what improvements would be desirable for future emergencies; and all deficiencies found in procedures, materials, equipment, manpower, leadership, and funding. A post-emergency report should be prepared by the licensee and distributed to all organizations that participated in or have a direct interest in the emergency. Any changes deemed necessary shall be made to the EAP, and an updated document distributed to all plan holders.

VI. EAP Coordinator Responsibilities

It is the EAP Coordinator's responsibility to provide annual EAP training. The EAP Coordinator is responsible for conducting the annual drill, reporting to the FERC Regional Engineer, planning the review, and verifying the posting of the notification flowcharts. The EAP Coordinator is also responsible for planning, reviewing, and reprinting the EAP every

five years. A letter of notification regarding the annual drill will be sent ten days prior to a drill to affected communication centers. Questions can be addressed to the EAP Coordinator at the following:

River Falls Municipal Utilities
ATTN: EAP Coordinator (Utility Director)
222 Lewis St.
River Falls, WI 54022
Business phone: (715) 425-0906

H. Preparedness

I. Surveillance and Monitoring

An emergency occurrence during normal working hours should be quickly detected with the EAP promptly implemented. The Powell Falls headwater level is checked weekly, and much more often during major maintenance activities or emergencies. One operator is responsible for both the Junction Falls and Powell Falls Hydro plants.

The operator makes frequent visual observations of the Project. There is no remote monitoring. The average response time for the operator is 15 minutes.

The plant does not rely on electricity to operate the wasteway and penstock sluice gates. The gates are opened and closed using a handwheel or dedicated motor, pulley and chain system.

If conditions require, operators would manually release water through the wasteway and penstock gates. An emergency occurrence during work hours should be quickly detected with the EAP promptly implemented.

In the event of a slowly developing failure or advance warning of a problem which could lead to failure, the dam operator would evaluate the need to lower the reservoir elevation in a controlled manner or on an emergency basis consistent with existing river flow and discharge capabilities of the dam. The drawdown, if deemed beneficial, would be accomplished by opening the sluice gates. Prior to beginning drawdown, the operator or Utilities Director shall notify local emergency management. Local emergency management and the dam operator shall then notify all other stakeholders as indicated on the Notification Flowchart.

Upon recognition of an emergency situation at the dam during non-working hours, the dam operator (or backup operators) would be sent to the dam by local emergency management officials to investigate and report back. The operators live in or around River Falls, Wisconsin, within 5-15 minutes from the plant.

In the event of a total electrical failure the city has portable generators and electrical line trucks have inverters.

Local law enforcement or the dam operator / Utility Director would implement the EAP prior to site verification if, for example, a situation occurred in which the Powell Falls Plant was in imminent danger of failure.

II. Evaluation of Detection and Response Timing

Total EAP implementation time has not been evaluated for the Powell Falls Project.

III. Access to the Site

Access to the site is accomplished via well-maintained city streets and town roads. The primary means of accessing the dam site is via an access road off West Park Street / Bartosh Lane.

During a snowstorm with substantial snow accumulation, the operator would drive a vehicle to the entrance of the access road, which is located on a city street that is kept relatively free of snow during the winter months, and from there walk to the dam.

IV. Response During Periods of Darkness

The Powell Falls dam is equipped with lights. The powerhouse is well illuminated from within and there is a light on the headworks. Hand-held lights and/or generator-powered emergency lighting can be used to aid in illumination of the dam in the event of a power failure.

V. Response During Weekends and Holidays

In the event that an imminent or potential emergency is activated during a weekend or holiday, it will be necessary to contact parties on the notification flowchart at their home phone or cell phone numbers, if their primary number is not staffed 24/7. The River Falls Municipal Utilities Department also has an after-hours emergency line.

VI. Response During Periods of Adverse Weather

During adverse weather, it may be necessary to alter access to the dam, and/or contact methods for parties in the notification flowchart.

VII. Alternative Sources of Power

In the event of total power failure, the city has available portable generators to power portable lighting and/or power the motor for gate operation. Electrical line trucks are also equipped with inverters.

VIII. Emergency Supplies and Information

Dam repair materials and equipment are not stockpiled at the dam for potential emergency situations, but many resources are available nearby. In the event of an

emergency, a request for materials can be made to Wisconsin Emergency Management, Madison, Wisconsin (see flowcharts for contact information).

In most instances, it is expected that there would be apparent indications of an imminent or pending failure that would provide some warning and time for taking appropriate action prior to complete failure. In addition, local heavy equipment owners or construction crews may be contacted to assist in stabilizing at risk dam components or to take any other appropriate actions to avert dam failure.

IX. Training and Exercising

See Appendix B, Plans for Training, Exercising, Updating, and Posting the EAP.

X. Alternative Systems of Communication

The principal line of communication with persons and agencies is by commercial telephone. Alternate lines of communication would be by mobile phone or two-way radio.

If necessary, contact with the River Falls Police Department or Pierce County Law Enforcement Center can be attempted by sending a dam or backup dam operator in person. The travel time from the Utilities Department office on Lewis Street to the Police Department is less than 5 minutes. Travel time to the Pierce County Law Enforcement Center is approximately twenty minutes. Mobile phones and hand-held radios are available for on-site communications or if the commercial telephone system is not available.

XI. Public Awareness and Communication

Communication between the emergency management authorities and the public will occur through the methods laid out by Pierce County. Communication of a dam emergency will also be communicated to the public located downstream of the dam.

I. Inundation Maps

The following maps depict the inundation zones for two types of dam failure, a sunny-day failure and flood failure. The extent of flooding and the corresponding travel times are approximate and should be used solely as a guide when implementing evacuation procedures. The Inundation Maps for the Powell Falls Hydroelectric Project were produced in November 2018, based on the information from the dam failure analysis conducted by Ayres Associates. For further information on the dam failure analysis, see Appendix A.

Part II: Appendices

Appendix A – Investigation and Analyses of Dambreak Floods

Appendix B – Plans for Training, Exercising, Updating, and Posting the EAP

Appendix C – Site-Specific Concerns

Appendix D – Documentation

Appendix E – Approval of the EAP

APPENDIX A

Investigation and Analyses of Dam Break Floods

Investigations and analysis of dam break floods are only contained within FERC copies of the EAP manual and are on file at the River Falls Utility office (City Hall).

APPENDIX B

Plans for Training, Exercising, Updating, Posting, and Distributing the EAP

Training, Testing, and Annual Review for Hydro Plant Operators and Security Operations Personnel

A detailed, verbal review of the Emergency Action Plan (EAP) manual will be conducted for responsible operating personnel during an annual block training. Annual training is conducted in February of each year for all plant operators (including backup operators). The review will consist of instruction and explanation of the procedures to follow in the event of an emergency and will cover problem detection and evaluation and appropriate remedial (emergency and non-emergency) measures. The EAP Coordinator will also answer questions regarding the procedures and test operator understanding of the EAP. Notification procedures, as covered in the EAP manual, will be emphasized, covering not only normal business hours, but those periods during which the plant is unattended and during periods of darkness.

A statement acknowledging review of the EAP and verbal review of the document procedures will be completed and signed by the operator and attested by the EAP Coordinator. (See page B-5 through B-6 for a copy of the Annual Review/Training signature form.) The statements for each plant operator will be kept on file from year to year for review by federal and state agency inspectors as necessary.

The above outlined review and training program will be conducted annually, after review and/or revision of the EAP, or within 30 days after assignment of a new operator.

Annual Training and Annual Drill

Activity	Responsibility of...
Site Training	Emergency Action Plan Coordinator
Annual Drill	Emergency Action Plan Coordinator
Report to Regional Engineer (within 30 days)	Emergency Action Plan Coordinator
Plan Review	Emergency Action Plan Coordinator
Verify Posting of Notification Flowchart (Plant operations room, utility director's office, police department, fire department)	Emergency Action Plan Coordinator

Annual Drill of the State of Readiness

At least once each year, a drill will be conducted by the EAP Coordinator. Written notification will be sent to communication centers and other critical stakeholders ten days prior to a drill. The drill will be initiated through the plant operator with the Notification Flowchart being followed in its entirety. A full report of the drill together with the City's assessment of its effectiveness will be made to the FERC Regional Engineer in Licensee's Annual EAP Status Report due at the end of the year. The report will include critique and any revisions or updates. The next section outlines the drill procedures.

ANNUAL DRILL PROCEDURES

Assumed Conditions at the Time of the Drill

The time frame is late winter/early spring when an early thaw has melted a substantial amount of heavy snow cover. The sluice gates at Powell Falls are open to allow excess flow through them. However, the operator arrives in the morning and observes that there is a new crack in the spillway with water jetting out.

Description of Drill Procedures

1. The dam operator shall inspect the dam for possible structural failure, read the headwater and tailwater elevations, and note a potential emergency situation.
2. The Powell Falls operator shall contact by telephone, the River Falls Police Department and notify them of the emergency situation. The operator shall then notify the River Falls Utility Director, Wisconsin Emergency Management and the Statewide FERC Coordinator. The dam operator will inform all parties that this is a drill and to confirm receipt of notification of a potential emergency.
3. The River Falls Police Department shall contact the following: Pierce County Sheriff / Emergency Management, the River Falls Fire Department and Kayak rental, shuttles and outfitters. A pre-scripted message will inform agencies that this is a drill and to test their emergency evacuation plans at this time.

After completion of the notification procedures, an analysis shall be made by the River Falls Utility Department on the timeliness and coordination of the drill. The Utility Director shall determine the level of success of the drill. Any areas of confusion or complication shall be noted and corrective actions taken. Should revisions of the EAP be necessary, they will be made and copies distributed to all parties appearing on the distribution list at the end of this Appendix. A statement attesting to this drill with resulting revisions will be forwarded to the FERC Regional Office in conjunction with the Annual EAP Status Report.

Annual Review of the Emergency Action Plan

At least once each year, a comprehensive review of the adequacy and accuracy of the EAP will be made as required by Section 12.24 (a), (b), and (c) of the Commission's Regulations. As an overall guide in conducting the annual comprehensive review of the EAP, the FERC "Emergency Action Plan Checklist" will be used. If no revisions or updates are needed, a letter to this effect will be submitted to the Regional Engineer.

All revisions to the EAP will be routed to those named on the distribution list.

Five Year Revision to Emergency Action Plan

<i>Activity</i>	<i>Responsibility Of</i>	<i>Completion Date</i>
Plan, Review, and Complete Reprinting	Emergency Action Plan Coordinator	Current Due Date: December 31, 2018
Plan, Review, and Complete Reprinting	Emergency Action Plan Coordinator	Following Due Date: December 31, 2023

Posting of the Notification Flowchart

The EAP Notification Flowchart is posted at the plant operation room, River Falls Utility Director's office, plant operations room, utility director's office, police department and fire department. It is available in all EAP manuals which are distributed according to the distribution list located at the end of this Appendix.

ANNUAL REVIEW/TRAINING PROCEDURE: HYDRO PLANT OPERATORS

The following operators and dam attendants have participated in the Annual Emergency Action Plan Review and Training Program for Junction Falls and Powell Falls Hydro Projects (FERC Project Number 10489 and DNR Field File No. 47.09 Junction Falls Dam, 47.10 Powell Falls Dam.)

<i>Name</i>	<i>Date</i>
_____	_____
_____	_____
_____	_____
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_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

City of River Falls Reviewing Official:

POWELL FALLS EAP DISTRIBUTION LIST**External Distribution**

Manual Reprint Year		Flowchart Only Reprint Year	
Manual	Additional Flowcharts	Agency	Flowcharts
1	0	Pierce County Emergency Management Attn: Director 555 Overlook Dr. PO Box 805 Ellsworth, WI 54011	1
1	0	WDNR, Eau Claire Office 1300 W Clairemont Ave. Eau Claire, WI 54701	1
1	0	Wisconsin Emergency Management West Central Region 5005 Highway 53 Eau Claire, WI 54701	1
1	0	Wisconsin Emergency Management 2400 Wright Street, P.O. Box 7865 Madison, WI 53707-7865	1
1	0	NWS – National Weather Service ATTN: EAP Coordinator 1733 Lake Drive West Chanhassen, MN 55317-8581	1
1	0	Dam Safety Engineer WI. Dept. of Natural Resources, Eau Claire Service Center 1300 W Clairemont Ave Eau Claire, WI 54701	1
3	0	Regional Engineer, FERC Chicago Regional Office 230 S. Dearborn Street, Room 3130 Chicago, IL 60604	3

APPENDIX C

Site-Specific Concerns

Downstream Recreationists

There is no downstream development within the area that would be inundated by a failure at Powell Falls dam. The primary risk posed by failure would be to persons recreating in the downstream river or on its banks. The kayak put-in area should be closed off and outfitters notified immediately in the event of a potential failure.

Documentation

In the event of an emergency, items such as structural drawings would be found at the River Falls Municipal Power Plant. National Weather Service forecasts and are utilized to predict potential floods. The plant has its own Operator's Procedures Manual kept at the River Falls Municipal Power Plant.

Equipment and Tools

All equipment and tools are kept at the River Falls Municipal Power Plant lower level.

APPENDIX D Documentation

Consultation

Documentation of consultation with the Emergency Management Agencies is not submitted for dams with a low hazard classification. For additional information pertaining to the EAP, contact the City of River Falls Utility Office.

APPENDIX E

Approval of the EAP

The acknowledgement form on the following page is submitted to the EMA's for signature at the annual seminar (face-to-face meeting) concurrent with any revisions to the EAP. Licensee maintains copies of the signed acknowledgement forms at the River Falls Utility Director's office.

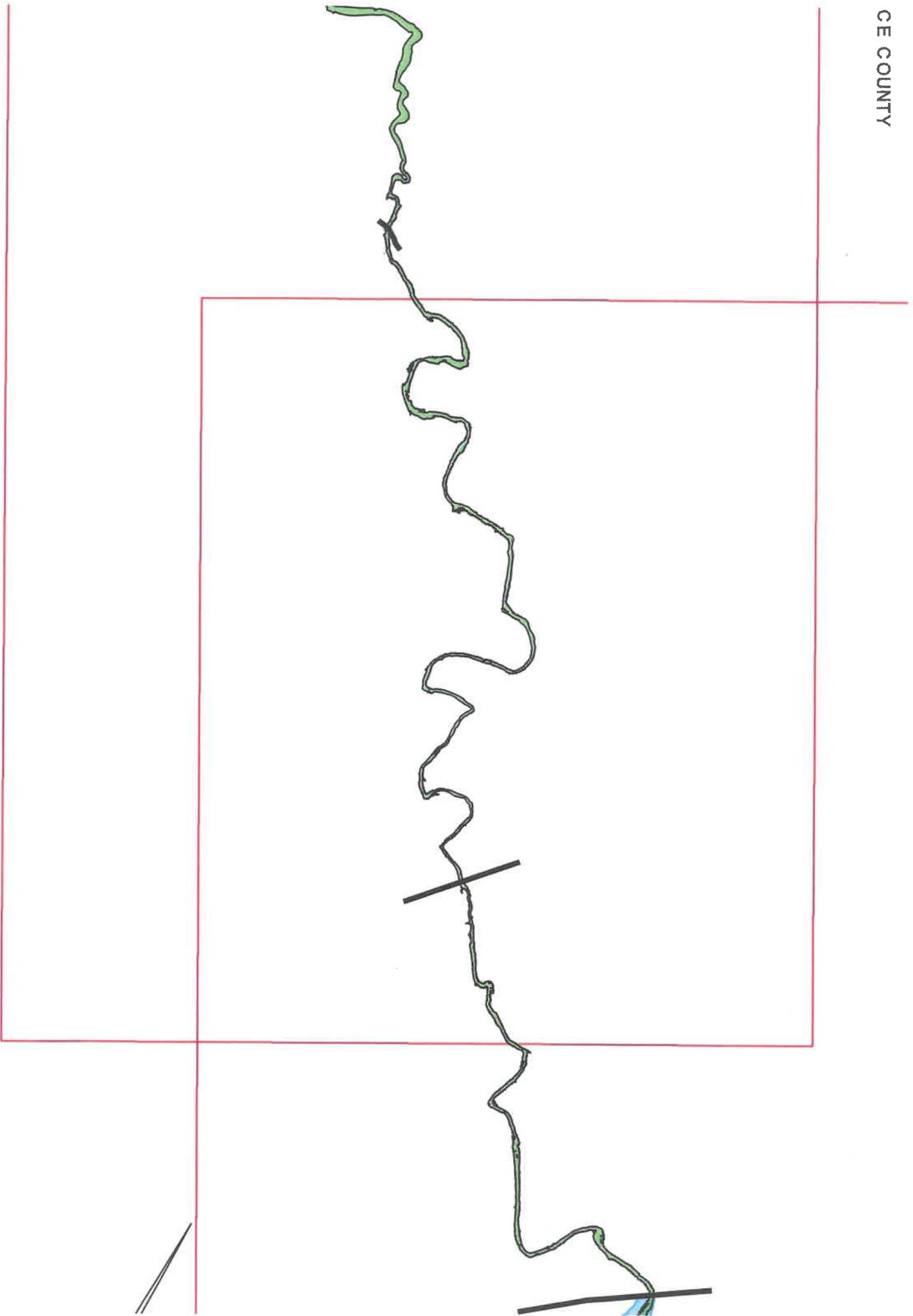
**ACKNOWLEDGMENT FORM FOR RECEIPT OF THE
2018 POWELL FALLS HYDROELECTRIC
POWER PLANT EMERGENCY ACTION PLAN**

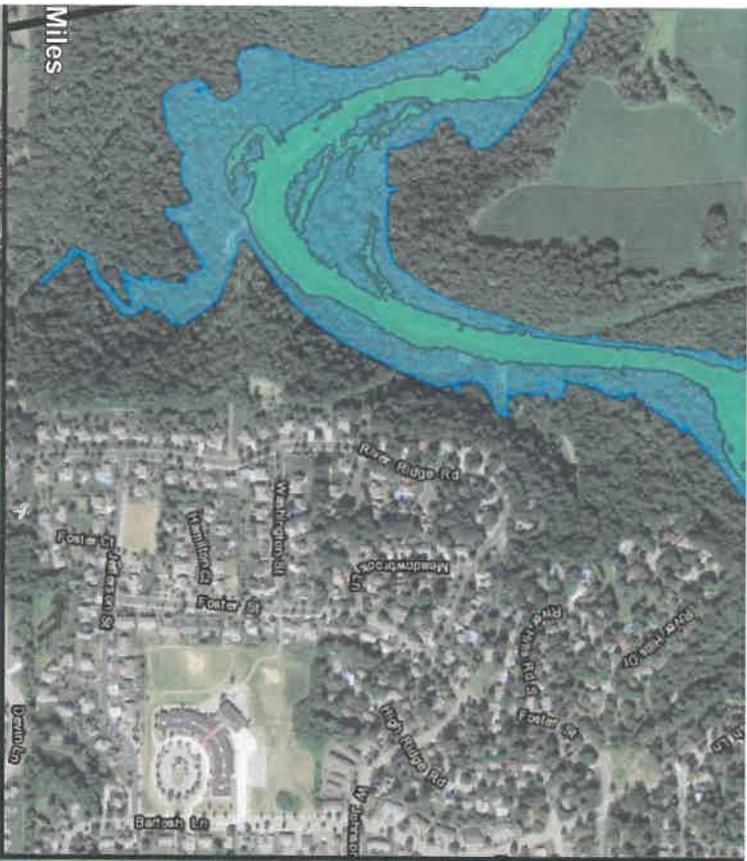
On behalf of _____ *[Company / Agency Name]*,
I hereby acknowledge receipt of the 2018 Powell Falls Hydroelectric Power Plant
Emergency Action Plan. I further acknowledge that we are aware of our emergency
action responsibilities and coordination activities in the event of an emergency condition
at the Powell Falls Hydroelectric Power Plant.

Name / Title

Date

**Please return this form in the enclosed self-addressed, stamped envelope within
30 days of receiving. You may also scan and email your form to
kwesthuis@rfcity.org.**





Miles

3.40 MILES DOWNSTREAM FROM POWELL FALLS DAM

Arrival Time	Fair Weather
Time to Peak	30 min
Max Elevation (ft)	0 hr 42 min
Incremental Rise (ft)	755.6
Peak Flow (cfs)	5.9
	2,180

0.01 MILES DOWNSTREAM FROM POWELL FALLS DAM

Arrival Time	Fair Weather	Flood
Time to Peak	0 min	0 min
Max Elevation (ft)	0 hr 6 min	0 hr 6 min
Incremental Rise (ft)	811.0	819.0
Peak Flow (cfs)	9.4	4.3
	7,460	22,800

0.38 MILES DOWNSTREAM FROM POWELL FALLS DAM

Arrival Time	Fair Weather	Flood
Time to Peak	9 min	3 min
Max Elevation (ft)	0 hr 16 min	0 hr 18 min
Incremental Rise (ft)	790.3	798.9
Peak Flow (cfs)	6.4	1.6
	4,350	19,900

DOWNSTREAM LIMIT OF FLOOD CONDITION MAPPING DUE TO LOW INCREMENTAL HAZARD

See Inset View

Powell Falls

Matchline to Sheet 2



PIERCE COUNTY

