UNITED STATES OF AMERICA
BEFORE THE
FEDERAL ENERGY REGULATORY COMMISSION

Klamath River Renewal Corporation
PacifiCorp

Project Nos. 14803-001;
2082-063

AMENDED APPLICATION FOR SURRENDER OF LICENSE
FOR MAJOR PROJECT AND REMOVAL OF PROJECT WORKS

EXHIBIT R
100% Design Report
(Part 7 of 12)
United States of America
Before the
Federal Energy Regulatory Commission

Klamath River Renewal Corporation
PacifiCorp

Project Nos. 14803-001; 2082-063

Amended Application for Surrender of License
for Major Project and Removal of Project Works

Exhibit R-5
Fall Creek Hatchery
(continued)
PIECE CLAMP UNIT
SERIES PIPER 432
PROVIDE STAINLESS STEEL
AROUND PIPE AT CLAMP
GALVANIZED WRENCHING
SUPPORT UNIT
SERIES POSAD CLAMP
WELDED STEEL
BRACKET
2" LONG ANCHOR RIVET W/ NUT AND CONE WASHER, IN 4" EMBR, TOP
FACE OF WALL

FLOW DIFFUSER - DETAIL
SCALE: 1/10" = 1'-0"

WELDED STEEL BRACKET
SCALE: 1" = 1'-0"

NOTE:
3/8" HOLES NAGING RIVET OF PIPE AND TIE AT 3" OC.
FLOW DIFFUSER DETAIL

SCALE 1" = 1'-0"

NOTE:
Drill 3/8" holes along invert of pipe and tie at 1/2" OC.
SECTION
SCALE: 3" = 1'-0"

SLIDE GATE - DETAIL
SCALE: 1" = 1'-0"

SLIDE GATE - DETAIL
SCALE: 1" = 1'-0"

SECTION
SCALE: 3" = 1'-0"

WARNING
THIS DRAWING IS NOT MEAN TO SCALE. DIMENSIONS ARE NOT TO SCALE.

MCMILLAN JACOBS ASSOCIATES

KLAMATH RIVER RENEWAL CORPORATION

REVISION: 001

DRAWN: M GLEASON

PROJECT DATE: 1/30/08

HEIGHT: 3'-0"

WALL BRACKET STEM GUIDE

WALL MOUNTED SLIDE GATE FOR 3'-0" WALL OPENING

MANUAL HANWhEL ACTUATOR

CONCRETE FLOORS

GROUT

CONCRETE BOX CUT-OUT

LUMBAR SEALS

SUPER ANCHOR

SECTION
SCALE: 3" = 1'-0"

SLIDE GATE

GATE FRAME

SECTIONS AND DETAILS 6

CONCRETE MACHINED AND SEALER PER MANUFACTURERS INSTRUCTIONS

CONCRETE CUT-OFF DIMENSIONS FOR BOTTOM SEAL EMBEDDING PER MANUFACTURERS INSTRUCTIONS.
FINGER WEIR ATTACHMENT ASSEMBLY

FINGER WEIR

GATE BRACKET

SHEET NOTES:
1. BRACKET WIDTH BASED ON AN ESTIMATED GATE THICKNESS OF 1/2" CONFIRM DIMENSIONS WITH GATE MANUFACTURER.
<table>
<thead>
<tr>
<th>PANEL BOARD SCHEDULE</th>
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<tbody>
<tr>
<td><strong>TYPE</strong></td>
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<tr>
<td>1</td>
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<tr>
<td>2</td>
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**NOTES:**
- Color codes: GREEN = Main Power, ORANGE = Sub Power
- Panel board capacities vary depending on location
- All panels are designed for safe operation

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**Klamath River Renewal Corporation**

**Fall Creek Fish Hatchery**

**Electrical Luminaire Schedule and Panel Schedules**

**Design:** M. Coburn

**Drawing:** GE004

**Check:** J. Baken

**Project Date:** November 2023

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**Warnings:**
- Always use appropriate PPE when working with electrical equipment.
- Ensure all circuits are properly labeled and marked.
- Never work on live circuits; always de-energize before working.

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**Designed by:** McMillen Jacobs Associates
# Panel Board Schedule

## Panel

<table>
<thead>
<tr>
<th>Panel</th>
<th>Phase</th>
<th>Notes</th>
<th>Fall Creek Hatchery</th>
<th>Electric Panel Schedules</th>
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## Distribution Panel Schedules

### Panel A

<table>
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<th>Panel</th>
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### Panel B

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### Panel C

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### Panel D

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### Panel E

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## Power Project

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## Load Shedding

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<th>Notes</th>
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## Technical Notes

1. **General Notes:**
   - 1.1: Use of pumps should be limited to necessary operations.
   - 1.2: All electrical equipment should be maintained regularly.

**Equipment Specifications:**

- **Generators:**
  - 2.1: 1000 kW capacity
  - 2.2: Automatic transfer switch

- **Pumps:**
  - 2.3: 50 HP variable speed pumps
  - 2.4: 20 HP fixed speed pumps

- **Switchgear:**
  - 2.5: 600 Vbus
  - 2.6: 15 kA circuit breaker

**Safety Measures:**

1. **Safety Precautions:**
   - 3.1: Personal protective equipment should be worn.
   - 3.2: Escalator usage is prohibited.

2. **Maintenance:**
   - 3.3: Regular maintenance schedules should be followed.

3. **Emergency Procedures:**
   - 3.4: In case of fire, activate sprinklers immediately.

## Equipment List

<table>
<thead>
<tr>
<th>Equipment</th>
<th>Notes</th>
<th>Fall Creek Hatchery</th>
<th>Electric Panel Schedules</th>
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**KLAMATH RIVER RENEWAL CORPORATION**

**FALL CREEK FISH HATCHERY**

**ELECTRICAL PANEL SCHEDULES**

**DESIGN: M. GATES**

**DRAWN: D. JOHNSON**

**CHECKED: D. BAKER**

**PROJECT DATE: 10/06/96**

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** geopol**
<table>
<thead>
<tr>
<th>DUCT BANK ID</th>
<th>FROM</th>
<th>TO</th>
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<tr>
<td>DB-100A</td>
<td>P-HH-100</td>
<td>FLOWMETER VAULT</td>
<td>K71, K118, K119</td>
<td>600V POWER, CONTROL</td>
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<tr>
<td>DB-100B</td>
<td>P-HH-100</td>
<td>INTAKE STRUCTURE</td>
<td>K38, K72, K79</td>
<td>480V POWER, 120V POWER, CONTROL</td>
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<td>DB-100B</td>
<td>S-HH-100</td>
<td>INTAKE STRUCTURE</td>
<td>K137, K138</td>
<td>SIGNAL</td>
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<td>DB-101</td>
<td>P-HH-100</td>
<td>GEN/GEAR BUILDING</td>
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<td>480V POWER, 120V POWER</td>
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</tbody>
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**Klamath River Renewal Corporation**  
**Fall Creek Hatchery**  
**Electrical**  
**Duct Bank Schedule**