



**Lower Klamath Project
FERC Project No. 14803**

Public Safety Plan

**Klamath River Renewal Corporation
2001 Addison Street, Suite 317
Berkeley, CA 94704**

**PUBLIC VERSION
CUI/CEII REDACTED**

January 2023

This page intentionally left blank.

Table of Contents

1.0	Introduction	1
1.1	Organization of the Plan.....	2
1.2	Purpose of the Public Safety Plan.....	5
1.3	Relationship to Management Plans and Other Plans.....	5
2.0	Phased Approach	5
3.0	Risk Assessment	6
3.1	Overview	6
3.2	Methods and Process.....	7
4.0	Risk Assessment Results	12
4.1	Pre-Drawdown Initial and Anticipated Risk Characterization	12
4.1.1	J.C. Boyle Development: Pre-Drawdown Initial and Anticipated Risk	12
4.1.2	Copco No. 1 Development: Pre-Drawdown Initial and Anticipated Risk.....	17
4.1.3	Copco No. 2 Development: Pre-Drawdown Initial and Anticipated Risk.....	21
4.1.4	Iron Gate Development: Pre-Drawdown Initial and Anticipated Risk.....	21
4.2	Drawdown Initial and Anticipated Risk Characterization	23
4.2.1	J.C. Boyle Development: Drawdown Initial and Anticipated Risk	23
4.2.2	Copco No. 1 Development: Drawdown Initial and Anticipated Risk.....	29
4.2.3	Copco No. 2 Development: Drawdown Initial and Anticipated Risk.....	33
4.2.4	Iron Gate Development: Drawdown Initial and Anticipated Risk.....	33
5.0	Proposed Risk Reduction Measures	37
5.1	Pre-Drawdown Proposed Risk Reduction Measures	37
5.1.1	J.C. Boyle Development: Pre-Drawdown Proposed Risk Reduction Measures	37
5.1.2	Copco No. 1 and No. 2 Developments: Pre-Drawdown Proposed Risk Reduction Measures.....	40
5.1.3	Iron Gate Development: Pre-Drawdown Proposed Risk Reduction Measures..	44
5.2	Drawdown Proposed Risk Reduction Measures	48
5.2.1	J.C. Boyle Development: Drawdown Proposed Risk Reduction Measures	48
5.2.2	Copco No. 1 and No. 2 Developments: Drawdown Proposed Risk Reduction Measures.....	52
5.2.3	Iron Gate Development: Drawdown Proposed Risk Reduction Measures	56

6.0	Public Safety Plan Implementation, Monitoring, and Reassessment.....	60
6.1	Public Safety Incident Protocol.....	60
7.0	Reporting.....	60
8.0	References	60

List of Tables

Table 1.1-1:	FERC-Recommended Public Safety Plan Elements.....	3
Table 3.2-1:	Incident Likelihood Rating (ILR) – Pre-Drawdown	10
Table 3.2-2:	Incident Likelihood (ILR) – Drawdown	10
Table 3.2-3:	Incident Consequence Rating (ICR) – Pre-Drawdown and Drawdown.....	10
Table 4.1-1:	J.C. Boyle Development: Pre-Drawdown Initial and Anticipated Risk Ranking	12
Table 4.1-2:	J.C. Boyle Development: Pre-Drawdown Activity Risk Level Summary	14
Table 4.1-3:	Copco No. 1 Development: Pre-Drawdown Initial and Anticipated Risk Ranking.....	17
Table 4.1-4:	Copco No. 1 Development: Pre-Drawdown Activity Risk Level Summary.....	18
Table 4.1-5:	Iron Gate Development: Pre-Drawdown Initial and Anticipated Risk Ranking.....	21
Table 4.1-6:	Iron Gate Development: Pre-Drawdown Activity Risk Level Summary.....	22
Table 4.2-1:	J.C. Boyle Development: Drawdown Initial and Anticipated Risk Ranking	23
Table 4.2-2:	J.C Boyle Development: Drawdown Activity Risk Level Summary	24
Table 4.2-3:	Copco No. 1 Development: Drawdown Initial and Anticipated Risk Ranking.....	29
Table 4.2-4:	Copco No. 1 Development: Drawdown Activity Risk Level Summary.....	30
Table 4.2-5:	Iron Gate Development: Drawdown Initial and Anticipated Risk Ranking.....	33
Table 4.2-6:	Iron Gate Development: Drawdown Activity Risk Level Summary.....	34
Table 5.1-1:	J.C. Boyle Development: Pre-Drawdown Proposed Risk Reduction Measures	38
Table 5.1-2:	Copco No. 1 and 2 Developments: Pre-Drawdown Proposed Risk Reduction Measures	40
Table 5.1-3:	Iron Gate Development: Pre-Drawdown Proposed Risk Reduction Measures.....	45
Table 5.2-1:	J.C. Boyle Development: Drawdown Proposed Risk Reduction Measures	49
Table 5.2-2:	Copco No. 1 and No. 2 Developments: Drawdown Proposed Risk Reduction Measures	53
Table 5.2-3:	Iron Gate Development: Drawdown Proposed Risk Reduction Measures.....	57

Appendices

Appendix A Dam Component Figures

Appendix B Public Safety Plan Figures

Appendix C Public Safety Plan Risk Assessment

**CONTROLLED UNCLASSIFIED INFORMATION (CUI)
CRITICAL ENERGY/ELECTRIC INFRASTRUCTURE INFORMATION
(CEII)
REDACTED**

LOWER KLAMATH PROJECT HEALTH AND SAFETY PLAN

APPENDIX B. PUBLIC SAFETY PLAN

ALL SECTIONS AND APPENDICIES