

### **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.
The page monutering for the many

#### **Table of Contents**

1.0	Introduction1			
	1.1	Organ	ization of the Plan	2
	1.2	Purpos	se of the Public Safety Plan	5
	1.3	Relation	onship to Management Plans and Other Plans	5
2.0	Phas	ed Appı	roach	5
3.0	Risk Assessment			6
	3.1	Overview		6
	3.2	Metho	ds and Process	7
4.0	Risk Assessment Results			12
	4.1	Pre-Dr	rawdown 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		lown 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-Dr	rawdown Proposed Risk Reduction Measures	37
		5.1.1	J.C. Boyle Development: Pre-Drawdown Proposed Risk Reduction Measur	es 37
		5.1.2 Meası	Copco No. 1 and No. 2 Developments: Pre-Drawdown Proposed Risk Redures	
		5.1.3	Iron Gate Development: Pre-Drawdown Proposed Risk Reduction Measure	es44
	5.2	Drawd	lown Proposed Risk Reduction Measures	48
		5.2.1	J.C. Boyle Development: Drawdown Proposed Risk Reduction Measures	48
		5.2.2 Meası	Copco No. 1 and No. 2 Developments: Drawdown Proposed Risk Reduction	
		5.2.3	Iron Gate Development: Drawdown Proposed Risk Reduction Measures	56

6.0	Public S	afety Plan Implementation, Monitoring, and Reassessment	60
	6.1 Pu	ublic Safety Incident Protocol	30
7.0	Reportin	g	60
8.0	Reference	ces	60
Lis	t of Ta	ibles	
Table	1.1-1: FE	RC-Recommended Public Safety Plan Elements	. 3
Table	3.2-1: Inc	cident Likelihood Rating (ILR) – Pre-Drawdown	10
Table	3.2-2: Inc	cident Likelihood (ILR) – Drawdown	10
Table	3.2-3: Inc	cident Consequence Rating (ICR) – Pre-Drawdown and Drawdown	10
Table	4.1-1: J.C	C. Boyle Development: Pre-Drawdown Initial and Anticipated Risk Ranking	12
Table	4.1-2: J.C	C. Boyle Development: Pre-Drawdown Activity Risk Level Summary	14
Table	4.1-3: Co	pco No. 1 Development: Pre-Drawdown Initial and Anticipated Risk Ranking	17
Table	4.1-4: Co	pco No. 1 Development: Pre-Drawdown Activity Risk Level Summary	18
Table	4.1-5: Iro	n Gate Development: Pre-Drawdown Initial and Anticipated Risk Ranking	21
Table	4.1-6: Iro	n Gate Development: Pre-Drawdown Activity Risk Level Summary	22
Table	4.2-1: J.C	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: Co	pco No. 1 Development: Drawdown Initial and Anticipated Risk Ranking	29
Table	4.2-4: Co	pco No. 1 Development: Drawdown Activity Risk Level Summary	30
Table	4.2-5: Iro	n Gate Development: Drawdown Initial and Anticipated Risk Ranking	33
Table	4.2-6: Iro	n Gate Development: Drawdown Activity Risk Level Summary	34
Table	5.1-1: J.C	C. Boyle Development: Pre-Drawdown Proposed Risk Reduction Measures	38
Table	5.1-2: Co	pco No. 1 and 2 Developments: Pre-Drawdown Proposed Risk Reduction Measures	40
Table	5.1-3: Iro	n Gate Development: Pre-Drawdown Proposed Risk Reduction Measures	45
Table	5.2-1: J.C	C. Boyle Development: Drawdown Proposed Risk Reduction Measures	49
Table	5.2-2: Co	pco No. 1 and No. 2 Developments: Drawdown Proposed Risk Reduction Measures	53
Table	5.2-3: Iro	n 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