GLOSSARY - DEFINITIONS OF TERMS, ACRONYMS AND ABBREVIATIONS

Term	Definition
Term	A
A	ampere
accretion flow	The incremental flow between two points. Also known as local inflow.
ac	acre
	acre-feet or acre-foot; the amount of water needed to cover one acre to a depth of one foot
ac-ft	(43,560 cubic feet or 325,900 gallons)
ACHP	Advisory Council on Historic Preservation
ADA	Americans with Disabilities Act
	An almost vertical pipe or short horizontal passage entering a tunnel, either to add water from a
adit	conduit, sluice or other water source, or as a maintenance access tunnel (also referred to as a
	portal)
	Similar to hibernation, where an animal is dormant during unfavorable summer-like conditions.
aestivation	For example, to survive long periods of drought, some reptiles and amphibians become inactive
	or "aestivate."
AFRP	Anadromous Fish Restoration Program
- Ql	A reservoir located immediately downstream from a powerhouse, sometimes used to re-regulate
afterbay	flows to the river or stream.
anabat	An electronic instrument used to detect and record high frequency vocalization of bats.
anadromous	Anadromous fish live most of their lives in saltwater and return to freshwater to spawn.
ancillary	Provides added support.
APE	Area of Potential Effect, as pertaining to Section 106 of the National Historic Preservation Act
AW	American Whitewater
	В
BA	Biological Assessment
	Basin Plans provide the basis for protecting water quality in California. Basin Plans are
	mandated by both the Federal Clean Water Act and the State Porter-Cologne Water Quality Act.
Basin Plan	Sections 13240-13247 of Porter-Cologne specify the required contents of a regional basin plan.
	For a given region, each plan contains 1) the beneficial uses of each water body; and 2) water
	quality objectives to ensure the reasonable protection of beneficial uses.
Bay-Delta	San Francisco Bay-San Joaquin Delta Estuary
BLM	United States Department of the Interior, Bureau of Land Management
BMI	benthic macroinvertebrates
BO	Biological Opinion
bypass flow	Bypass flows are those flows that are required to be released into a stream and do not flow
bypass now	through the powerhouse.
	С
°C	degrees Celsius
Cal Fish and Game	California Department of Fish and Game; also referred to as CDFG
CALFED	CALFED Bay-Delta Program; state and federal interagency committee with management and
	regulatory responsibility for the Bay-Delta Estuary, now California's Delta Stewardship Council.
Cal-IPC	California Invasive Plant Council
CalTrans	California Department of Transportation
	Classification and Assessment with Landsat of Visible Ecological Groupings. The Forest
CalVeg	Service's classification system of California's existing vegetation communities. Original
	information was collected using remote sensing techniques along with field verification.
CAS	California Academy of Sciences
CD	compact disc
CDBW	California Department of Boating and Waterways
CDEC	California Data Exchange Center
CDFA	California Department of Food and Agriculture
CDFG	California Department of Fish and Game; also referred to as Cal Fish and Game
CDPR	California Department of Parks and Recreation
CE	Federal Candidate Endangered Species. A species or subspecies listed as endangered under the
	California Endangered Species Act
CEC	California Energy Commission
CEQ	Council on Environmental Quality
CEQA	California Environmental Quality Act

	C (continued)
CESA	California Endangered Species Act
cf or ft ³	cubic feet
CFBF	California Farm Bureau Federation
CFR	Code of Federal Regulations
cfs	cubic feet per second. One cfs equals approximately 1.98 acre-feet per day.
CHRIS	California Historical Resources Information Center
cm	centimeter
CNDDB	California Natural Diversity Data Base
CNPS	California Native Plant Society
Commission	Federal Energy Regulatory Commission; also referred to as FERC.
component	A named data set in an operation model that is a building block for a condition.
conceptual design for recreation facilities	A conceptual design is the designer's initial communication to convey proposed design solutions. Conceptual designs for a facility may consist of diagrammatic sketches, bubble diagrams, line diagrams, preliminary floor plans, or renderings. A conceptual design is prepared prior to a site development plan. (Forest Service Handbook 7309.11, Chapter 30.)
condition	The main building block of a scenario in an operation model containing the data used to simulate the system.
conduit	A pipe, flume or canal used for diverting or moving water from one point to another, usually used when there is no existing streambed or waterway.
conjunctive use	Conjunctive use of surface and groundwater consists of combining the use of both water sources in order to (1) minimize the undesirable physical, environmental, and economical effects of using each and (2) optimize the water demand/supply balance.
consumptive use of water	Water no longer available for use because it has evaporated, transpired, or has been incorporated into products and crops.
Contact List	List of Interested Parties that have provided an e-mail address to the Licensee for distribution of information regarding the Relicensing. Also referred to as Relicensing Contact List.
CPUE	catch per unit effort
Critical Habitat	Areas of land or water that the United States Fish and Wildlife Service or National Marine Fisheries Service has designated to have the physical or biological features essential to the conservation of a species listed under the federal Endangered Species Act.
CRLF	California red-legged frog
CSC	California Special Concern Species, an administrative designation by CDFG.
CT	Federal Candidate Threatened Species. A species or subspecies listed as threatened under the California Endangered Species Act.
CTR	California Toxics Rule
cu yd	cubic yard
CVP	Central Valley Project
CVPIA	Central Valley Project Improvement Act
CVRWQCB	Central Valley Regional Water Quality Control Board
CWA	Federal Clean Water Act
CWHR	California Wildlife Habitat Relationships System
CWT	coded wire tag
D GI D . F	The slope of the downstream face of the dam.
Dam Slope – Downstream Face	The slope of the downstream face of the dam. The slope of the upstream face of the dam.
Dam Slope – Upstream Face	The type of device that controls the spillway.
Dam Spillway Control Dam Spillway Crest Elevation	The elevation of the lowest point of the spillway.
Dam Spillway Type	The type of spillway.
Dam Type	A description of the type of dam.
Dam Year Placed in Service	The first calendar year water was impounded behind the dam.
dbh	diameter at breast height
dam fish release requirement	The flow that must be released to the stream downstream of the dam; also known as minimum streamflow release requirement or bypass flow.
discharge	water released from a dam
diversion dam	Generally a small dam with minimal storage and a primary purpose of routing a portion of upstream flow into a diversion conduit.
DEIR	Draft Environmental Impact Report
Delta	Sacramento-San Joaquin River Delta
DEM	Digital Elevation Model – The format of the USGS digital elevation data sets containing elevation values that have been primarily derived from the USGS topographic map series.
Development	The Project facilities situated immediately upstream of a powerhouse.
•	The substations, transformers, and lines that convey electricity from high-power transmission
distribution system	lines to the consumer. Usually 115 kV and lower voltage.
DLA	Draft License Application
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	D (continued)
DO	dissolved oxygen
DOC	dissolved organic carbon
DPS	distinct population segment
Draft EA	Draft Environmental Assessment
DSOD	(California) Division of Safety of Dams
DSS	The United States Army Corps of Engineers' Hydrologic Engineering Center Data Storage
	System is a database system designed to store and retrieve scientific data.
DVD	Digital Versatile Disk
DWR	California Department of Water Resources
	E
EA	Environmental Assessment
EAP	Emergency Action Plan
EC	electrical conductivity
ECPA	Electric Consumers Protection Act
EDR	Englebright Dam Reach
EFH	Essential Fish Habitat
EIA	Energy Information Administration
EIR	Environmental Impact Report
EIS	Environmental Impact Statement
El.	Elevation
endemic (adj.)	Desired and the second of the
endemism (noun)	Restricted to a certain locality or region. Indigenous. Native.
EPA	United States Environmental Protection Agency
EPT	Orders of benthic insects: Ephemeroptera, Plecoptera, and Tricoptera.
ESA	Federal Endangered Species Act
ESU	evolutionarily significant unit
EVC	existing visual condition
E, c	F
°F	degrees Fahrenheit
	Federal Candidate Species. A species or subspecies currently proposed as a candidate for listing
FC	under the ESA.
	Federal Endangered Species. A species or subspecies listed as endangered under the Federal
FE	Endangered Species Act.
FEA	Final Environmental Assessment
FEIS	Final Environmental Impact Statement
FEMA	Federal Emergency Management Agency
FEPD	A federally listed endangered species currently proposed for delisting from the ESA.
FERC	Federal Energy Regulatory Commission; also referred to as Commission
FERC determination	A binding decision made by FERC during the relicensing process.
TERC determination	The area Licensee uses for normal Project operations and maintenance, and is shown on Exhibits
FERC Project Boundary	G, J, and K of the current license.
	Federal Geographic Data Committee: promotes the coordinated development, use, sharing, and
FGDC	dissemination of geographic data.
FHSA	Federal Historic Sites Act
FHWA	Federal Highway Administration
гпwА	A structure on or around natural or artificial barriers to facilitate fish migration, such as a fish
fishway	g ,
-	ladder.
flashboards	Removable boards installed seasonally in reservoir spillways to temporarily increase storage
0 11	capacity.
flood elevation	The reservoir elevation at which the plant's reservoir spills.
FLPMA	Federal Land Policy and Management Act
flume	A lined structure, commonly made of wood, metal or concrete, used for conveyance of water,
	usually where no streambed exists or the topography is not suitable for a canal or tunnel.
FMP	Fire Management Plan
FMU	Fire Management Unit
forebay	A reservoir upstream from the powerhouse from which water is drawn into a tunnel or penstock
·	for delivery to the powerhouse.
Forest Service	United States Forest Service
FP	Fully Protected. A species or subspecies designated as "fully protected" under the California Fish
	and Game Code.
FPA	Federal Power Act
FPD	Federal Proposed Delisting. A species or subspecies proposed for listing as endangered under the
	federal Endangered Species Act.

Glossary (continued)	
	F (continued)
FPE	Federal Proposed Endangered. A species proposed for listing as "endangered" under the federal Endangered Species Act.
fng	feet per second
fps	Federal Proposed Threatened. A species or subspecies proposed for listing as threatened under
FPT	the federal Endangered Species Act.
FSS	Forest Service Sensitive. A species or subspecies designated as "sensitive" by the Forest Service.
ft	foot or feet
11	
FT	Federal Threatened Species. A species or subspecies listed as threatened under the federal Endangered Species Act.
FWN	Foothills Water Network
FYLF	foothill yellow-legged frog
0	G
G	giga
g	gram
GAP	Gap Analysis Program. United States Geological Survey and UC Santa Barbara's vegetation,
0.11	land cover, and potential wildlife habitat map(s) for California.
generator	A machine, powered by a turbine that converts the rotating mechanical energy into electrical
	energy.
GIS	Geographic Information System
GMP	General Management Plan
gpd	gallons per day
gpm	gallons per minute
GPS	Global Positioning System
	Н
HA	Commercially or recreationally harvested species; non-protected species.
HABS	Historic American Building Survey
VV DT LT	United States Fish and Wildlife Service Instream Flow Incremental Methodology simulation
HABTAT	model.
HAER	Historic American Engineering Record
НСР	Habitat Conservation Plan
head	The vertical height of water that represents potential energy.
	The amount of head that is lost (to friction, etc.) between the headwater (reservoir/forebay/intake)
head loss	and the tailwater.
HEC	Hydrologic Engineering Center of the United States Army Corps of Engineers
	United States Army Corps of Engineers – Hydrologic Engineering Center Reservoir Simulation
HEC-ResSim	model, Version 3.0. Also referred to as ResSim.
HEP	Habitat Evaluation Procedures
headwater	The upper tributaries that form the source of a stream.
HLCTS	Hydropower License Compliance Tracking System
hp	horsepower
HPMP	Historic Properties Management Plan
hr	hour
HSC	Habitat Suitability Criteria
<u> </u>	
HSI	Habitat Suitability Indices
HSPH	Hydrologic Simulation Program—Fortran
HU	Hydro unit, numbers assigned by California's Regional Water Quality Control Boards.
THIC	Hydrologic unit codes developed by the Water Resources Council corresponding to hierarchal
HUC	classification of hydrologic drainage basins in the United States. Each hydrologic unit is
YY.	identified by a unique HUC.
Hz	hertz (cycles per second)

IFIM	United States Fish and Wildlife Service, Instream Flow Incremental Methodology
IHA	Indicators of Hydrologic Alteration
	Installed capacity refers to the maximum amount of electric energy, in megawatts, that can be
	produced by all of a dam's turbines operating to their maximum capacity for a given time. No
installed capacity	power station ever produces at maximum capacity over a sustained period of time due to
	maintenance needs, lack of demand or, in the case of hydro dams, lack of water. Also called
	nameplate capacity or maximum capacity.
inverted siphon	A pressurized pipe section of conduit that crosses a stream channel or ravine.
ILP	Integrated Licensing Process
in	inch
inflow	The water entering a reservoir.
Initial License	The first license for a project issued by the Federal Energy Regulatory Commission.
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Interchange	I (continued) Electric power that flows from one entity to another.
Interested Parties	All governmental agencies, non-governmental organizations, Native American tribes, and unaffiliated members of the public who either: 1) routinely participate in Federal Energy Regulatory Commission relicensings in California, or 2) have advised the Licensee that they wish to become involved in one or more of the relicensing proceedings. The Licensee is considered to
	be an Interested Party.
introgression	The introduction of genes from one species into the gene pool of another species.
ISO	Independent System Operator
ITA	Indian Trust Asset
	J
	K
kg	kilogram: 1,000 grams
kg/day	kilograms per day
kg/ha	kilograms per hectare
kg/yr	kilograms per year
km	kilometer: 1,000 meters
kV	kilovolt: 1,000 volts
kVA	kilovolt amperes
kW	kilowatt: 1,000 watts
kWh	kilowatt-hour: 1,000 watt hours
	L
L	liter
lb	pound
Lead Agency	A lead agency is the agency responsible for ensuring that a course-of-action, i.e., project complies with the California Environmental Quality Act and/or the National Environmental Policy Act.
lentic	Related to or living in standing water.
	Application for a new license; submitted to the Federal Energy Regulatory Commission no less
License Application	than two years in advance of expiration of an existing license.
license term	The period for which a license is issued by the Federal Energy Regulatory Commission. Usually between 30 and 50 years.
Licensee	Yuba County Water Agency
LiDAR	Light Detection and Ranging. An optical remote sensing technology that measures properties o scattered light to find range and/or other information of a distant target.
load shapes	The daily schedule of power pricing and the hour duration of each price.
local inflow	The incremental inflow between two plants (also known as accretion flows).
LOP	limited operating periods
lotic	Related to or living in flowing water.
LRMP	Land and Resource Management Plan
LWD	large woody debris
LWM	large woody material
	M
μ	micro
μg	microgram
μg/L	micrograms per liter (equals parts per billion, or ppb)
μmho/cm	micromhos per centimeter, a measurement of electrical conductivity
μS	microsiemens, a measurement of electrical conductivity
M	mega
m	meter (if the letter is used as a unit on its own)
m	milli (if the letter is placed in front of another unit)
mainstem powerhouse	A plant located on the main stream that runs through the system. Not a plant on a side o tributary stream.
maximum penstock velocity	The maximum velocity in the penstock at the "installed capacity" as defined above. This wil occur at the smallest penstock diameter.
mbf	million board feet
MBTA	Migratory Bird Treaty Act
MCA/T	mandatory conditioning agencies/tribes
MCL	maximum contaminant level
Meeting Participant	A Relicensing Participant who attends a specific meeting. Meeting Participants are different for each meeting.
Member Unit	One of eight water users who participated in the Yuba Accord with YCWA.
metadata	"Data about data" - Describes the content, quality, condition, purpose and other characteristics of
	data.

mg/L milligrams per liter (equals parts per million, or ppm) mg/L milligrams of carbon per square meter milligrams milligrams milligrams milligrams of carbon per square meter location when instantaneous flow measurement indicating the minimum flow of water that must be maintained at a measurement location at any point in time. A requirement indicating the minimum flow within a Project-affected reach, at a fixed minimum instream flow can be defined as an instantaneous flow or a time period-veraged flow millimeter MIR	Glossary (continued)	M (continued)
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	N (continued)
normal operating capacity	The maximum MW output of a generator or group of generators under normal maximum head
	and flow conditions.
NPDES	National Pollution Discharge Elimination System
NPN	Neuns-Ponto-Neer association, a soils classification.
NPS	National Park Service; also referred to as Park Service
NRCS	Natural Resource Conservation Act
NRHP	National Register of Historical Places
NRI	Nationwide Rivers Inventory
NTU	nephelometric turbidity unit
NWI	National Wetlands Inventory
NWIS	United States Geological Survey's National Water Information System
NYI	North Yuba Index
NYR	North Yuba River
NYK	
001	0
O&M	operation and maintenance
ОЕННА	California's Office of Environmental Health Hazard Assessment
OEP	Federal Energy Regulatory Commission Office of Energy Projects (Formerly Office of
-	Hydropower Licensing)
OHP	State Office of Historic Preservation
OHV	off-highway vehicle
	The utilization of fixed Project assets for their intended use, as well as any ongoing, repetitive
operation and maintenance	tasks associated with keeping fixed Project assets in acceptable condition, including safety
	inspections.
ORV	off-road vehicle <i>or</i> Outstanding Remarkable Views
	P
P	phosphorus
PAC	Protected activity center
PAD	Pre-Application Document
	Questionnaire developed and circulated by Yuba County Water Agency to gather existing,
PAD Questionnaire	relevant, and reasonably available information for inclusion in the Yuba River Development
	Project Pre-Application Document.
PAOT	people at one time
Park Service	National Park Service; also referred to as NPS
PDF	portable document format
peaking	Operation of generating facilities to meet maximum instantaneous electrical demands.
penstock	An inclined pipe through which water flows from a forebay or tunnel to the powerhouse turbine.
pensioek	The length of the penstock (see definition for penstock, above) from the tunnel or upstream inlet
penstock length	to the turbine shut off valve.
manata ali ayunnanta	The type of supports for the penstock.
penstock supports	A description of the type of pipe and whether the pipe is surface or buried.
penstock type PFMC	Pacific Fishery Management Council
PG&E	Pacific Gas and Electric Company
PH	powerhouse
pH	The measure of the acidity or alkalinity of a substance or liquid.
PHABSIM	Physical Habitat Simulation Model
PIT	Passive Integrated Transponder
Plan	A common term for a county's general plan.
PLP	Preliminary Licensing Proposal
PM&E	Protection, Mitigation & Enhancement
	A Project facility, operation or management activity undertaken for the purpose of protecting or
DM %E managura	mitigating impacts that would result from continued Project operation and maintenance, or for the
PM&E measure	purpose of enhancing resources that would be affected by continued Project operation and
	maintenance.
PNF	Plumas National Forest
	Maximum megawatt output generated by the specific powerhouse. For powerhouses with two or
powerhouse maximum capability	more units, this value is the maximum simultaneous total output generated.
ppb	parts per billion
PPL	Pit-Pastolla-Lasvar association, a soils classification
	parts per million, equals mg/L
ppm	1 parts per million, equals mg/L

	P (continued)
	A reference to the manner in which water is scheduled though a powerhouse. At this time, there
	are six operating types:
	<u>Diversion Powerhouse</u> - A powerhouse that utilizes upstream diversions with minimal
	storage.
	Fill and Spill – A powerhouse that peaks with the load shape but gives priority to the
	upstream powerhouse and will spill in order for the upstream powerhouse to follow the load
	shape as closely as possible.
powerhouse operation type	Strictly Peaking - A powerhouse that peaks its discharge. Attempts to schedule water in
powerhouse operation type	highest value periods of day. Can instantaneously (in a 15-minute increment) change load.
	Peaking with Ramp Rates – A powerhouse where the water discharge still closely follows the
	load shape (powerhouse will Peak); however, the powerhouse is constrained by ramping rates.
	<u>Pure Run of River</u> – A powerhouse where inflows are equal to outflows on an instantaneous
	basis.
	Re-regulating - A powerhouse designed to regulate peaked discharge from upstream
	powerhouses into smoother discharges. This powerhouse releases constant outflows for the
	whole day. Re-regulating powerhouses may or may not be constrained by ramping rates.
Preliminary Information Package	A document issued by YCWA in 2009 to prepare Relicensing Participants for formal relicensing.
Project	YCWA's Yuba River Development Project, FERC Project No. 2246. Specifically, the Project
Floject	facilities and features identified in the existing FERC license.
	The area within the FERC Project Boundary and the land immediately surrounding the FERC
Drainat Aran	Project Boundary (i.e., within about 0.25 mile of the FERC Project Boundary) and including
Project Area	Project-affected reaches between facilities and downstream to the next major water controlling
	feature or structure.
Project Drainage Basins	Combination of the Middle Yuba River, North Yuba River, and Yuba River drainage basins.
Project Region	The area surrounding the Project in the order of a county or national forest.
D : (D 1	Roads within Project boundary and constructed for Project purposes and necessary for Project
Project Roads	operation and maintenance
D. C. ATT. C.	The area surrounding the Project on the order of a United States Geological Survey 1:24,000
Project Vicinity	topographic quadrangle.
D 1 . VV . 1 . 1	The area from which Project features are visible. The land base from which the Project may be
Project Viewshed	seen.
Project Works	All of the infrastructure associated with the operations of the Project.
PWC	personal water craft
	Q
QA/QC	quality assurance/quality control
quad	quadrangle
quad	quadrangle R
ramping	R
ramping	
	R The act of increasing or decreasing stream flows from a powerhouse, dam or diversion structure
ramping rate curve	R The act of increasing or decreasing stream flows from a powerhouse, dam or diversion structure The river flow vs. stage curve relationship at the point where ramping rate compliance is measured.
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ramping rate curve	The act of increasing or decreasing stream flows from a powerhouse, dam or diversion structure The river flow vs. stage curve relationship at the point where ramping rate compliance is measured. The rate of water discharge from a powerhouse, dam, or diversion structure, prescribed by the License or other regulatory-driven rule. Recreation Day, which equals a visit by a person to a site for recreation purposes during any
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	R (continued)
reservoir length	The distance between the two most distant points on the reservoir shore at normal maximum
	water surface elevation.
reservoir maximum storage capacity	The gross volume of water that can be stored in the reservoir.
reservoir NMWS elevation	Normal Maximum Water Surface - The elevation of the lowest spill crest if uncontrolled, the top of the gates for gates at the top of the dam.
reservoir storage curve	A curve that defines a reservoir's volume in acre-ft at various surface elevations.
reservoir surface area	The surface area of the reservoir at the normal maximum water surface elevation.
reservoir usable capacity	A volume measurement of the amount of water that can be stored for generation, down to a minimum level
reservoir width	The maximum distance between the two most distant points on the reservoir shore at normal maximum water surface elevation taken at a right angle to the line at reservoir length.
residence time	The period of time water remains in a reservoir.
Responsible Agency	A responsible agency is a public agency with discretionary approval authority over a portion of a project that is subject to the California Environmental Quality Act.
ResSim	United States Army Corps of Engineers - Hydrologic Engineering Center (USACE-HEC) Reservoir Simulation model, Version 3.0. Also known as HEC-ResSim.
riparian	Riparian applies to the vegetation zone and other biological resources adjacent to and hydrologically affected by neighboring riverine (lotic) and reservoir (lentic) water bodies.
RM	River Mile as measured along the river course, from downstream to upstream, often beginning at a downstream confluence with another river reach.
RMT	Yuba Accord River Management Team
ROD	Record of Decision
ROS	Recreation Opportunity Spectrum
Rosgen classification	The Rosgen classification system is a widely used method for classifying streams and rivers based on common patterns of channel formation (morphology). The patterns are preferably observed from physical measurements.
RST	rotary screw trap
RTD	resistance temperature detector
run-of-the-river	A hydro project that uses the flow of a stream with little or no reservoir capacity for storing water.
RV	recreational vehicle
RVD	Recreation Visitor Days
RWQCB	Regional Water Quality Control Board
	S
§ or §§	section or sections
salmonids	Any member of the taxonomic family Salmonidae, which includes all species of salmon, trout, char, whitefish, and grayling.
SCADA	Supervisory Control And Data Acquisition system
scenario	A collection of settings that constitutes a HEC-ResSim operation model run. Output data for a run are referenced by the scenario name.
SD1	Scoping Document 1: A document issued by the Federal Energy Regulatory Commission summarizing the relicensing process for a Project; generally issued following the first public meeting after the NOI.
SD2	Scoping Document 2: Within 45 days following the deadline for filing of comments on Scoping Document 1, the Federal Energy Regulatory Commission staff shall, if necessary, issue Scoping Document 2 to address comments received regarding Scoping Document 1.
SE	State Endangered. A species or subspecies listed as endangered under the California Endangered Species Act.
Secchi Disc	A method of measuring surface water transparency in a reservoir.
Section 106	Refers to Section 106 of the National Historic Preservation Act.
Section 401 Certification	Water quality certification issued by the State Water Resource Control Board, the California agency responsible for administering Section 401 of the Clean Water Act.
Section 7 Consultation	The required formal consultation required under the federal Endangered Species Act between the Licensee and the United States Fish and Wildlife Service and/or the National Marine Fisheries Service.
SFP	State Fully Protected
SFWPA	South Feather Water and Power Agency
SHPO	California Department of Parks and Recreation, Office of Historic Preservation, State Historic Preservation Officer
CO LEID A	Sierra Nevada Forest Plan Amendment
SNFPA	Sierra Nevada Forest Plan Amendment

	S (continued)
	Special-status species or subspecies are listed under the California Endangered Species Ac
Special-Status Species	federal Endangered Species Act, resource agency, or resource trustee, as candidates for
Special States Species	endangered or threatened status, species of special concern, sensitive species, watch list specie
	management indicator species, or rare species.
spill	Water that passes over a spillway or dam without being utilized for power generation.
spillway	A constructed passage for releasing surplus water from a reservoir or release water, not used for
spiliway	power generation, as otherwise necessary for safe project operation
spillway capacity curve	A curve that defines the magnitude of spill, in cubic feet per second, for the spillway at give
spiliway capacity curve	reservoir elevations.
SPT	sediment pass-through
sq ft or ft ²	square foot
sq mi or mi ²	square mile
•	State Rare. A species or subspecies listed as rare under the California Environmental Qualit
SR	Act.
SRH-2D	Sediment and River Hydraulics 2 Dimension modeling program
SRMA	Sierra Resource Management Area
SRMP	Sierra Resource Management Plan
SRWP	Sacramento River Watershed Program
	State Threatened. A species or subspecies listed as threatened under the Californ
ST	Environmental Quality Act.
atomo	A water surface elevation based on a local datum.
stage	
State	State of California
station use	Energy used to operate the generating facility's auxiliary equipment.
STATSGO	State Soil Geographic Database
stoplogs	Removable logs installed seasonally in reservoir spillways to temporarily increase storage
stopiogs	capacity. Also known as "flashboards."
storage-area-elevation curve	A rating curve that defines reservoir storage and water surface area as a function of the water
storage-area-cievation curve	surface elevation.
Study Area	The geographic area covered by a specific study.
Study Plan	The aggregate of all study descriptions.
Study Proposal	A single study, as well as the aggregate of all studies performed in support of the relicensing.
su	Standard units; units of measuring PH
	An area drained by a stream and all its tributaries that is contained within a larger basin of
sub-basin	watershed.
SUP	Special Use Permit issued by the Forest Service
SWAMP	SWRCB's Surface Water Ambient Monitoring Program
5 W Z HWII	The main control center for the development. The switching center is responsible for operation of
switching center	the development's automatic, semiautomatic, and manual powerhouses.
switchyard	A facility where electricity from the electrical generator is transferred to the electric grid.
SWP	State Water Project
SWRCB	State Water Project State Water Resources Control Board
synthesized hydrology	The calculated estimate of flow (not measured).
SYR	South Yuba River
SYRCL	South Yuba River Citizens League
SYWD	South Yuba Water District
	T
T&E	Threatened and Endangered species as listed by either the Federal Endangered Species Act or the
	California Endangered Species Act.
tailrace	Channel through which water is discharged from the powerhouse turbines.
taxa	Plural form of taxon.
	A term used in animal and plant classification. One or more organisms that are classified as being
taxon	members of the same group, related to each other.
TCP	Traditional Cultural Property
TDS	total dissolved solids
thalweg	The lowest elevation within the cross-section of a natural or artificial water conveyance channel
TMDL	total maximum daily load
	ý .
TN	total nitrogen
TNC	The Nature Conservancy
TNF	Tahoe National Forest
TOC	total organic carbon
transformer	An electrical device which modifies the voltage and current relationship of a power source.
	A mechanism, found on a dam or intake structure, which clears the water of debris before the
trash rack	water passes through the structure

Glossary (continued)	T (continued)
TSS	total suspended solids
tunnel	An underground or underwater passageway.
turbine	A machine that converts the energy of moving water into the mechanical energy of rotation. This energy is then used to turn an electrical generator or other device.
	U
U.S.	United States
U.S.C.	United States Code
UC Davis	University of California, Davis
unimpaired hydrology	Synthesized hydrology of Project-affected streams with no developments. An estimate.
Unit	A term referring to the combined turbine-generator machine.
USACE	United States Department of Defense, Army Corps of Engineers
USDA	United States Department of Agriculture
USDOC	United States Department of Commerce
USDOD	United States Department of Defense
USDOI	United States Department of the Interior
USFWS	United States Department of the Interior, Fish and Wildlife Service
USGS	U.S. Geological Survey
UTM	Universal Transverse Mercator – The map projection upon which the UTM Coordinate System is based.
UYRSP	The Upper Yuba River Studies Program
	V
V	volts
VELB	valley elderberry longhorn beetle
VMS	A Forest Service Visual Management System
	W
W	watt
Watch List	A list prepared by an individual National Forest Land Resource Management Plan of plants and animal species that are locally rare (as opposed to declining throughout their range) and are of public concern, occur as disjunct populations, are newly described taxa, or lacking sufficient information on population size, treats, trends or distribution. These species are not on the federal special status species list.
water quality certification	Issued by the State Water Resources Control Board in California, but required by the federal Clean Water Act, Section 401 water quality certification is required for any permit or license issued by a federal agency for any activity that may result in a discharge into waters of the state to ensure that the proposed project will not violate state water quality standards.
water withdrawals	Water that is withdrawn from the reservoir, not available for energy generation, which is lost from the system. Withdrawals can be either positive or negative.
Whitewater Classification System	Class I: (Easy) Moving water with small disturbances on the surface and a few small waves. There is little to no danger to swimmers. Class II: (Novice/Beginner) Faster moving water with easily avoided rocks, holes, and waves. Danger to swimmers is still slight but care must be taken. Class III: (Intermediate) Fast moving water containing various rocks, holes, currents, and waves that require skillful maneuvering to avoid. Swimmers could be at risk and may require help. Class IV: (Advanced) Strong rapids, large waves, big holes, unpredictable currents, and dangerous obstructions requiring multiple maneuvers to get through or around. Swimmers are at risk and will require help to be rescued. Class V: (Expert) All of the characteristics of Class IV with the added danger of being longer and containing more continuous features that may not be avoided. There is serious risk to swimmers and others may be of no help. Class VI: (Unrunnable) Only a team of experts who carefully plan every aspect of this expedition would have hope of surviving these rivers and rapids.
WPT	western pond turtle
WSEL	water surface elevation
WSRA	Wild and Scenic Rivers Act
WUA	Weighted Usable Area
WY	water year
	X
V^3	Y
5	cubic yard
YCWA	Yuba County Water Agency
YCWG	Yuba County Fish and Game
yd	yard
YOY	young-of-the-year
YRI	Yuba River Index

Yuba County Water Agency Yuba River Development Project FERC Project No. 2246

Giossaly (Continued)	
Y (continued)	
Yuba Accord	Adopted in 2008, the Yuba Accord consists of four agreements between Yuba County Water Agency and others to 1) increase Yuba County Water Agency's contribution to flows in the Lower Yuba River for fishery enhancement; 2) formalize conjunctive use practices in the Yuba County Water Agency's service area to help increase the volume of water available to increase the flows; 3) authorizes Yuba County Water Agency to sell the water, once it's downstream, to the CALFED Environmental Water Account and others; and 4) amends the YCWA and PG&E power purchase contract.
${f z}$	