

APPENDIX C
REFERENCES

C.1 GLOSSARY OF ACRONYMS AND ABBREVIATIONS

AHP - Available Hydro Power

ATC - Available Transmission Capacity

BBS - Bulletin Board System (electronic data access through FERC)

CDP - Customer Displacement Power

cfs - Cubic feet per second

CREDA - Colorado River Energy Distributors Association

CROD - Contract Rate of Delivery

CRSP - Colorado River Storage Project

CRSP CSC - Western's CRSP Customer Service Center in Salt Lake City, Utah

DOE - United States Department of Energy

DSM - Demand Side Management

EA - Environmental Assessment

EIS - Environmental Impact Statement

EPA - Environmental Protection Agency

EPAct - Energy Policy Act of 1992

EPAMP - (Western's) Energy Planning and Management Program

EPAMP-EIS - The EIS conducted for EPAMP

EPM-EIS - (Western's Salt Lake City Area Integrated Projects) Electric Power Marketing EIS

EPRI - Electric Power Research Institute

FERC - Federal Energy Regulatory Commission

FR - Federal Register

FRN - Federal Register Notice

GADS - Generating Availability Data System (a NERC database)

GCD - Glen Canyon Dam (and power plant)

GCD-EIS - Operation of Glen Canyon Dam EIS prepared by the Bureau of Reclamation

GCES - Glen Canyon Environmental Studies

GCP Act - Grand Canyon Protection Act of 1992

gWh - Gigawatt-hours

IOU - Investor-owned Utility

IRP - Integrated Resource Planning

IPP - Independent Power Producer, or Independent Power Project

kW - Kilowatts

kWh - Kilowatt-hours

MW - Megawatts

MWh - Megawatt-hours

NEPA - National Environment Policy Act of 1969

NERC - North American Electric Reliability Council

NOPR - Notice of Proposed Rulemaking (by FERC)

NREL - National Renewable Energy Laboratory

PMA - Power Marketing Administration

PUHCA - Public Utility Holding Company Act (1935)

PURPA - Public Utility Regulatory Policy Act (1979?)

RDI - Resource Data International

RFP - Request for Proposals

RIN - Real-time Information Network

ROD - Record of Decision

RPA - Reasonable and Pruden Alternative

RTA - Regional Transmission Association

RTG - Regional Transmission Group

SHP - Sustainable Hydro Power

SLCA/IP - Salt Lake City Area Integrated Projects
SLIP - SLCA/IP (shortened form)
SWRTA - Southwest Regional Transmission Association
TAG - Technical Assessment Guide (published by EPRI)
TSIN - Transmission System Information Network
USEWS - United States Fish and Wildlife Service
WRP - Western Replacement Power
WRTA - Western Regional Transmission Association
WSCC - Western Systems Coordinating Council
WSPP - Western System Power Pool

C.2 GLOSSARY OF RESOURCE TERMINOLOGY

AHP, or Available Hydro Power - The monthly capacity and energy actually available based on prevailing water release conditions.

Baseload Power - Power generated to meet the level of electrical demand during all hours of a time period

Capacity - The maximum potential of a resource to deliver power.

Capacity Factor - The fraction or percentage of total energy delivered from a resource over a period of time, divided by the maximum that could have been delivered if the resource was used at its maximum capacity over the entire period.

CDP, or Customer Displacement Power - Replacement power purchased directly by the customer, rather than by Western. CDP is also considered part of the customer's CROD.

CROD, or Contract Rate of Delivery - The customer's seasonal firm peak capacity allocation from Western.

Dispatch - The connection of a generating resource to the electric system to serve load.

Economic Dispatch - The centralized coordinated decision to use generating resources to serve load in the most economic manner.

DSM, or Demand-Side Management - Programs which alter the requirement for, and pattern of use of, electric power in order to achieve operational objectives of the entity supplying the power.

Energy - The amount of power generated or delivered to serve load over a period of time; usually measured in kilowatt-hours or megawatt-hours.

IRP, or Integrated Resource Planning - Consideration of both supply-side resources and demand-side management programs as potential sources of power to fulfill future demand and energy requirements.

Load Flow Model - A computer-based model to analyze the flow of electric power from generating sources to loads through transmission lines at a certain point in time..

Long-Term WRP - Long-Term Western Replacement Power is power purchased by Western for a period of one year or longer, and is considered part of the customer's CROD.

Off-Peak - Off-peak hours are hours of low electrical demand, generally at night and on weekends and holidays.

On-Peak - On-peak hours are hours of high electrical demand, generally during daytime and evening hours on work days.

Operating Factor - The average operating level of a resource, when in use. (e.g., a resource with a 50% capacity factor, could operate half of the time at an operating factor of 100%, or all of the time at an operating factor of 50%)

Peaking Power - Power generated to meet electrical load during the period of highest demand only.

Power Flow Model - see Load Flow Model

Production Cost - The cost of producing electric power to serve load.

Production Cost Model - A software package designed to project the cost of producing electric power to serve load in the future, normally including some representation of hourly loads and generating resources, along with an economic dispatch algorithm.

Ramp-Rate - The rate of change (increase or decrease) in water release volume, usually expressed as cfs per hour.

Seasonal WRP - Seasonal Western Replacement Power is power purchased by Western on behalf of a customer for a period of one six-month season, and is part of the customer's CROD during that season.

SHP, or Sustainable Hydro Power - A fixed level of long term capacity and energy available from the SLCA/IP facilities during the summer and winter seasons, based on an established risk level.

WRP, or Western Replacement Power - Capacity and energy acquired by Western on behalf of the customer as part of the customer's CROD. WRP may be purchased as either Seasonal WRP or Long-Term WRP.

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