

DEPARTMENT OF THE ARMY  
NORTH PACIFIC DIVISION, CORPS OF ENGINEERS  
P. O. Box 2870  
Portland, Oregon 97208-2870

CENPD-EN-WM  
Regulation  
Number 1165-2-2

2 January 1990

Water Resource Policies and Authorities  
WATER MANAGEMENT RESPONSIBILITIES

1. PURPOSE. This regulation pertains to the management of the Columbia River reservoir system through the regulation and operation of Corps of Engineers dams and those owned by other agencies. The purpose of this regulation is to clarify the organizational structure of and define specific responsibilities for the Division, districts, and project offices engaged in this activity. It also defines the Water Management Board and associated procedures for Division-district interface on water management activities.

2. APPLICABILITY. This regulation is applicable to Engineering and Operations elements in Headquarters North Pacific Division (HQNPDP), and in Portland, Seattle, and Walla Walla Districts (including Planning Division in CENPW).

3. REQUIRED PUBLICATIONS.

a. ER 1110-2-240 (Water Control Management). Cited in paragraph 5a, 6b, 11b, 12 and 13.

b. ER 1110-2-241 (Use of Storage Allocated for Flood Control and Navigation at Non-Corps Projects). Cited in paragraph 5a.

c. ER 1110-2-249 (Management of Water Control Data Systems). Cited in paragraph 12a.

d. ER 1110-2-1400 (Reservoir Control Centers). Cited in paragraph 4.

e. EM 1110-2-3600 (Management of Water Control Systems). Cited in paragraph 5a.

f. Columbia River Master Water Control Manual. Cited in paragraph 5c.

g. CENPD Master Plan for Water Control Data Systems. Cited in paragraph 11.

---

\*Supersedes NPDR 1165-2-2, 10 January 1967

#### 4. BACKGROUND AND DEFINITIONS.

a. Water control management of dams and reservoirs in North Pacific Division (NPD) is the responsibility of both district and division offices. In the Columbia River basin, which encompasses three district jurisdictions, a need exists for centralized management of reservoir regulation activities, since the system of reservoirs requires unified coordination and operation. Accordingly, a system management organization, now the Water Management Branch, was established in 1968 in the HQNPD. The duties and responsibilities of the Branch, which includes a Reservoir Control Center, are defined by ER 1110-2-1400. District offices also remain involved with the Columbia basin reservoirs, but in a secondary capacity. In certain geographic areas that are independent from the Columbia River basin, however, district offices assume primary regulation responsibilities. Jurisdiction for district/division responsibilities for each major project within the NPD boundaries have been defined and are shown in Appendix A. Responsibilities have generally been assigned to the district office in which the project exists unless the project is connected electrically and/or hydraulically to the Columbia system.

b. Certain key terms used in this regulation are defined in Appendix B. Some of these terms are used very explicitly in defining the responsibilities covered by this regulation.

#### 5. WATER MANAGEMENT POLICIES, GUIDANCE.

a. General Policies and Guidance. Corps of Engineers' projects will be regulated to conform with basic provisions in authorizing documents and water management policies and criteria. Corps of Engineers' policies with regard to water management are contained in ER 1110-2-240 and ER 1110-2-241. Technical guidance in carrying out reservoir regulation is contained in EM 1110-2-3600.

b. Project Regulation Guidance. Project water control plans have been developed to define and describe regulation procedures for each Corps project and for non-Corps projects for which the Corps has primary regulation responsibility. These are usually contained in the project water control manuals.

c. Policies and Guidance for System Management. The Master Water Control Manual for the Columbia River (reference 3f) contains policy and guidance for regulating the dams and reservoirs in the Columbia basin to fulfill integrated system objectives. Since the projects in the Columbia system are interrelated, regulation for individual projects must be coordinated with objectives for the system as a whole. Project obligations to meet system objectives are broadly defined in authorizing documents, with specific requirements contained in contractual agreements which are described in the CENPD Master Water Control Manual (reference 3f).

6. DIVISION OFFICE ORGANIZATION AND RESPONSIBILITIES.

a. Organization. The organizational chart for those elements in the HQNPD associated with water management is shown in Appendix C. Also shown are the other agencies with which coordination is required. Water management activities are carried out by the Water Management Branch in Engineering Division. The Branch is organized into three sections which carry out the various responsibilities relating to the water management mission described below. These are also summarized on the organizational chart.

b. Responsibilities. HQNPD is responsible for:

(1) Preparing the annual operating plan for the Columbia system in accordance with Pacific Northwest Coordination Contract and Columbia River Treaty, including performing system regulation studies and coordination as shown in Appendix A.

(2) Preparing the annual operating plan for the Willamette basin.

(3) Primary regulation of the Columbia reservoir system, including coordination with BPA, USBR, district offices, fishery agencies, electrical utilities, etc.; performing back-up analyses; and issuing instructions to projects. Also performing secondary regulation for other projects as necessary. See specified projects in Appendix A.

(4) Implementing the Columbia River Treaty in accordance with Treaty documents, through the Treaty Operating Committee and Hydrometeorological Committee, including performing required studies as well as daily regulation activities.

(5) Representing the Corps of Engineers on the Coordination Contract Committee and NWPP Operating Committee, for water management responsibilities.

(6) Developing, coordinating, planning and implementing the juvenile fish passage plan and water budget plan on the Columbia and Snake Rivers.

(7) Coordinating water supply forecasts with NWRFC, BPA and other agencies, overseeing forecast integrity, and preparing forecasting procedures for projects listed in Appendix A.

(8) Performing system flood control, power, water quality, and conservation storage studies to improve regulation procedures or analyze problem areas for projects for which water control plan responsibilities exist.

(9) Maintaining and implementing the CROHMS System, including the central computer facility hardware and software (in conjunction with CENPD-IM). Includes maintenance of communications facilities such as the CBT

network and the GOES system; coordination of remote stations; and the processing of real-time data.

(10) Performing public information/involvement activities in accordance with annual plans.

(11) Participating in activities associated with the Water Management Board.

(12) Assuming necessary dam safety responsibilities relating to reservoir regulation and flood warning and notification, including conducting and participating in emergency action plan exercises.

(13) Preparing and maintaining master water control manuals for the Columbia and Willamette River basins and portions of other water control manuals for projects designated in Appendix A.

(14) Implementing water quality programs required for mainstem Columbia and Snake River projects.

(15) Preparing the Columbia River Treaty and Columbia River Water Management Group Annual Reports, and special after-action reports such as post-flood reports, as defined in Appendix A.

(16) Performing oversight and approval of district Water Control Data System (WCDS) development as required by ER 1110-2-240.

(17) Performing oversight and approval of District water control plans and manuals as required by ER 1110-2-240.

(18) Performing oversight of district reservoir regulation activities.

## 7. DISTRICT OFFICE ORGANIZATION AND RESPONSIBILITIES.

a. Organization. Appendix C contains separate organizational charts for those parts of the organizations associated with water management. This activity resides as a section within the Districts' Hydrology and Hydraulics branches.

b. Jurisdiction. Projects and responsibilities that fall within the jurisdiction of each District Office are shown in Appendix A.

c. Responsibilities. District Offices will be responsible for:

(1) Maintaining and updating as necessary the water control plan for projects shown in Appendix A, including making studies and coordinating with other agencies as appropriate.

(2) Primary and secondary regulation of those projects specified in Appendix A, including the necessary coordination and back-up analyses.

(3) Preparing and updating water control manuals or projects specified in Appendix A.

(4) Performing flood control and conservation storage studies to improve regulation procedures or analyze problem areas for projects for which water control plan responsibility exists (Appendix A).

(5) Operating and maintaining designated Water Control Data Systems, including data controllers and remote stations.

(6) Developing and implementing water supply and streamflow forecasting procedures for those projects listed in Appendix A.

(7) Preparing special after-action reports such as post-flood reports for projects shown in Appendix A.

(8) Participating in activities associated with the Water Management Board.

(9) Assuming necessary dam safety responsibilities.

(10) Performing public information activities in accordance with annual plans.

(11) Conducting and participating in emergency action plan exercises.

(12) Water quality studies and activities for tributary and coastal streams.

(13) Collecting snow cover data from aerial flights and satellite imagery for use in spring flood forecasting (CENPS and CENPW).

#### 8. PROJECT OFFICE ORGANIZATION AND RESPONSIBILITIES.

a. Organization and Coordination. Project offices are within the purview of CENPD Construction-Operations Division, with Operations organizations in district offices providing oversight to project engineers and staff. Interface with water management personnel in district or division offices occurs in the project regulation process. In routine regulation situations this is normally accomplished by direct contact between district or division reservoir regulation personnel and project personnel. In unusual situations, district or division managers may be brought into the communication line. For Columbia Basin projects, the NPD Reservoir Control Center communicates directly with project personnel, unless otherwise agreed or if special circumstances arise that would be of significance to the District (e.g.,

regulation that would be sensitive to local communities, or a change in operating plans).

b. Responsibilities. Project offices will be responsible for the following actions, with regard to water management.

(1) Carrying out instructions from Division/District water control managers.

(2) Reporting project status and hydromet data as required.

(3) Coordinating with water control managers regarding O&M activities that will affect project regulation.

(4) Carrying out responsibilities with regard to dam safety.

(5) Carrying out public information activities with regard to project regulation.

9. WATER MANAGEMENT BOARD. The Water Management Board is composed of district (excluding CENPA) and HQNPD representatives who consult with the Chief, CENPD-EN, on water management of the Columbia River reservoir system by CENPD-EN-WM. The purpose of the Board is to provide consultation on this Division-wide activity, to assist in resolving differences between division and district offices on setting policy, and to keep district offices better informed on the management of the Columbia River. The Board is an independent consultative body, reporting to the Chief, CENPD-EN and assisting him by presenting a perspective on the management of the Columbia River that reflects points of view of district offices and CENPD-CO. The Board receives overall direction from the Chief, CENPD-EN.

a. Composition. The HQNPD will be represented by the Chief, CENPD-EN and by the Chief, CENPD-CO-0 or their representatives. Each District Office will be represented by the District Commander or his representative. These will be designated in writing to the Chief, CENPD-EN. Each office may have additional supporting staff to assist in the Board's activities, but there will be only one official spokesperson for each of the five organizations represented.

b. Board Chair. The Board meetings will be chaired by the Chief, CENPD-EN.

c. Meetings. The Board will have a formal meeting at least once a year, generally in the month of January or February. This time-frame is desirable because it provides the best opportunity to address matters pertaining to the current operational outlook, the development of the next year's Operating Plan, and the O&M budget submittal. Additional meetings may be requested by Board members and set by the Chief, CENPD-EN.

d. Responsibilities. The Board will address both routine items as listed below, and special issue topics requested by Board members or by Chief, CENPD-EN. Routine items are to include:

(1) The Corps' input to the Annual Operating Plan prepared by the Pacific Northwest Coordination Agreement Contract Committee.

(2) Requests for changes by board members to the current year's operating plan and actual system regulation, as driven by current water supply forecasts and operating requirements.

(3) The annual public information program.

(4) Water Management Branch's staffing expenditures, and budget, including staffing, budget, and expenditures for operating and maintaining the NPD CROHMS computer facility.

(5) CENPD-EN-WM (and other participants as appropriate) will prepare the necessary information to address agenda topics. Technical information will be distributed to Board members at least one week prior to the meeting.

e. Procedures. Prior to the scheduled Board meeting, the following will be implemented. For special Board meetings, similar procedures will be followed as appropriate.

(1) Chief, CENPD-EN will set the date of the meeting.

(2) Chief, CENPD-EN will solicit issue papers from Board members, which will be considered as agenda topics for the meeting. Additionally, the Chief, CENPD-EN will circulate to Board members his desires for agenda topics. The meeting agenda will be set by the Chief, CENPD-EN at least one month prior to the meeting/date.

(3) CENPD-EN-WM will provide an update of financial, budgetary, and staffing information to Board members at least two weeks prior to the meeting date.

(4) CENPD-EN-WM will provide the annual power operating plan and summary of the supporting refill study data for the current operating year two months before the meeting.

(5) CENPD-EN-WM (and other participants as appropriate) will prepare the necessary information to address agenda topics. Technical information will be distributed to Board members at least one week prior to the meeting.

f. Documentation. Minutes of Board meetings, along with any formal correspondence relating to the Board, will constitute the record of the Board's activities and actions. HQNPDR will be responsible for recording, preparing, and distributing the minutes of the Board's meetings.

g. Resolution of Issues. Where there are unresolved issues, the Chief, CENPD-EN will submit a copy of the minutes along with his plan to address these issues to the Division Commander and the Board members.

10. PUBLIC INFORMATION. A reservoir regulation outlook will be developed by CENPD-EN-WM each year in January, reflecting Corps of Engineers obligations to the system, the first water supply forecasts for runoff in the northwest, projected reservoir regulation, and other factors. The reservoir regulation outlook is to address in particular the potential impacts of reservoir regulation on local users of the projects, such as reservoir and downstream river users. This outlook will be reviewed by the Water Management Board at its January/February meeting and a plan will be established with agreed-upon procedures for informing and involving the public regarding the regulation of reservoirs for the forthcoming winter-spring-summer period. In years having especially low or high runoff, or if other circumstances are expected to result in unusual project regulation, the board may recommend special public meetings. Otherwise routine procedures to inform the public would suffice. The Districts have the lead responsibility for public information, including gathering input from the public disseminating information, and organizing public meetings. Technical assistance will be provided by CENPD-EN-WM as necessary.

11. WATER CONTROL PLANS AND MANUALS.

a. Responsibilities. District offices have the responsibility for preparing and maintaining project water control plans and manuals, and HQNPD is responsible for reviewing and approving those manuals. In the case of several projects on the mainstem of the Columbia River which involve extensive system-wide coordination, HQNPD will also be involved in the preparation and maintenance of the plans and manuals. Appendix A indicates the Division/District responsibilities by project. HQNPD will also be responsible for preparing and maintaining two master water control manuals, for the Willamette and Columbia River basins.

b. Requirements. The following requirements and procedures apply to project water control manuals, with the objective of maintaining the most important parts of the manuals (including the water control plan) in an accurate and up-to-date status while utilizing a minimum of personnel resources.

(1) The water control plan for the project is to be current and accurate.

(2) The water control manual will be considered functional and officially acceptable if it contains at least an up-to-date plan. Preferably, it would also contain other chapters that are of a technical nature. It need not contain other chapters with general information to be a functional manual.

(3) Water control manuals will be updated such that the more important parts are given a higher priority.

(4) The manual will be contained in a loose-leaf binder with cover sheets at the front that indicate status of the chapters in the manual.

(5) District offices will prepare their annual status report to HQNPD in accordance with ER 1110-2-240. A division-wide report will be submitted to HQUSACE.

12. WATER CONTROL DATA SYSTEMS.

a. Responsibilities. General responsibilities as defined in ER 1110-2-240 and ER 1110-2-249 are for district offices to develop and maintain Water Control Data Systems, while HQNPD maintains approval authority for systems and networks through the submittal of the Master Plan for Water Control Data Systems and its annual updates. Because of the necessity of having a centralized data collection and processing system for the management of the Columbia River, the HQNPD has developed the Columbia River Operational Hydromet and Management System (CROHMS) in conjunction with district offices and other federal agencies. The maintenance of CROHMS, along with the Columbia Basin Telecommunications (CBT) system requires that the Division be involved with data collection at some projects. Appendix A defines specific areas of responsibility for each project.

b. Requirements and Procedures. ER 1110-2-240 gives specific requirements for submittal and updating of district and Division WCDS mater plans.

13. AFTER-ACTION REPORTING.

a. Routine Reports. ER 1110-2-240 requires that a Division report on water management activities be submitted to HQUSACE annually. For NPD, HQUSACE has permitted the Columbia River Water Management Group Annual Report to fulfill this requirement. This report is prepared by HQNPD at the end of each water year, with input requested from district offices. Another routine water management report prepared by HQNPD that may require district input is the Columbia River Treaty Annual Report.

2 January 1990

\* b. Special after-action reports. After the occurrence of large floods and other unusual events such as natural disasters, an after-action report may be required. General guidance on responsibilities for these are shown in Appendix A. \*

FOR THE COMMANDER:



CLIFTON P. JACKSON, JR.  
Executive Assistant

3 Appendices

App A - District/Division Water Management Responsibilities

App B - Definitions and Acronyms

App C - Division/District Organizations for Water Management

Distribution:

A and B

DISTRICT/DIVISION WATER MANAGEMENT RESPONSIBILITIES

APPENDIX A  
 NPDR 1165-2-2  
 1 Dec 88  
 CENPD-EN-WM

DISTRICT/DIVISION WATER MANAGEMENT RESPONSIBILITIES

PROJECT	OWNER	AUTHORITY	REGULATION	PLAN	WAT SUPL	STREAMFLOW	WATER CNTRL	WATER CNTRL	AFTER-ACTION
					FORECAST	FORECAST	DATA SYSTEM	MANUAL	REPORTING
..... UPPER COLUMBIA .....									
Mica	BCH	Treaty	NPD		NWS*	NWS	NPD*		NPD
Revelstoke	BCH	Power Coord	NPD		NWS*	NWS	NPD*		NPD
Hugh Keenleyside	BCH	Treaty	NPD		NWS*	NWS	NPD*		NPD
LIBBY	CE	Congress.	NPD	NPS	NPD/NWS	NWS	NPS/NPD*	NPS	NPD
Duncan	BCH	Treaty	NPD		NWS*	NWS	NPD*		NPD
Corra Linn	W KOOT P&L	Power Coord	NPD		NWS	NWS	NPD*		NPD
Kootenay Projects	BCH/W KOOT	Power Coord	NPD		NWS	NWS	NPD*		NPD
Hungry Horse	USBR	Section 7	NPD		NWS*	NWS	NPD*	NPS/NPD*	NPD
Kerr	MONT P&L	FERC License	NPD		NWS	NWS	NPD*		NPD
Thompson Falls	MONT P&L	Power Coord	NPD	NPS	NWS	NWS	NPD*		NPD
Noxon Rapids	WASH WP	Power Coord	NPD		NWS	NWS	NPD*		NPD
Cabinet Gorge	WASH WP	Power Coord	NPD		NWS	NWS	NPD*		NPD
ALBENI FALLS	CE	Congress.	NPD	NPS	NWS	NWS	NPD*	NPS/NPD	NPD
Box Canyon	PEND PUD	Power Coord	NPD		NWS	NWS	NPD*		NPD
Boundry	SEATTLE CL	Power Coord	NPD		NWS	NWS	NPD*		NPD
Seven Mile	BCH	Power Coord	NPD		NWS	NWS	NPD*		NPD
Waneta	W KOOT P&L	Power Coord	NPD		NWS	NWS	NPD*		NPD
Spokane Projects	WASH NP	Power Coord	NPD		NWS	NWS	NPD*		NPD
Grand Coulee	USBR	Section 7	NPD		NWS	NWS	NPD*	NPD*/NPS	NPD
.....MID-COLUMBIA .....									
CHIEF JOSEPH	CE	Congress.	NPD	NPS	NWS	NWS	NPD	NPS/NPD	NPD
Wells	DOUGLAS PUD	FERC License	NPD	NPS	NWS	NWS	NPD*	NPS/NPD*	NPD
Rocky Reach	CHELAN PUD	FERC License	NPD		NWS	NWS	NPD*	NPS/NPD*	NPD
Rock Island	CHELAN PUD	FERC License	NPD		NWS	NWS	NPD*	NPS/NPD*	NPD
Wanapum	GRANT PUD	FERC License	NPD		NWS	NWS	NPD*	NPS/NPD*	NPD
Priest Rapids	GRANT PUD	FERC License	NPD		NWS	NWS	NPD*	NPS/NPD*	NPD
Yakima Projects	USBR		NPD	NPS	NWS	NWS	NPD*	NPS/NPD*	NPS/NPD
..... LOWER COLUMBIA .....									
MILL CREEK	CE	Congress.	NPW					NPW	NPW
MCHARY	CE	Congress.	NPD					NPW	NPD
WILLOW CREEK	CE	Congress.	NPP		NWS			NPW	NPP
JOHN DAY	CE	Congress.	NPD					NPP	NPD
Prineville	USBR	Section 7	NPP		NWS			NPP	NPP
Ochoco	USBR	Section 7	NPP		NWS			NPP	NPP
THE DALLES	CE	Congress.	NPD					NPP	NPD
BONNEVILLE	CE	Congress.	NPD					NPP	NPD
Swift #1 & #2	PP&L/COWLITZ	FERC License	NPD					NPP	NPP
Yale V	PP&L	FERC License	NPD					NPP	NPP
Mossyrock/	TACOMA CL	FERC License	NPD					NPP	NPP
Mayfield								NPP	NPP

APPENDIX A  
 NPDR 1165-2-2

DISTRICT/DIVISION WATER MANAGEMENT RESPONSIBILITIES

PROJECT	OWNER	AUTHORITY	PRIMARY REGULATION	WATER CNTRL PLAN	WAT SUPL FORECAST	STREAMFLOW FORECAST	WATER CNTRL DATA SYSTEM	AFTER-ACTION REPORTING
..... WILLAMETTE .....								
HILLS CREEK	CE	Congress.	NP	NPP/NPD	NPP	NWS/NPD	NPP	NPP/NPD
LOOKOUT POINT	CE	Congress.	NP	NPP/NPD	NPP	NWS/NPD	NPP	NPP/NPD
DEXTER	CE	Congress.	NP	NPP/NPD	NPP	NWS/NPD	NPP	NPP/NPD
FALL CREEK	CE	Congress.	NP	NPP/NPD	NPP	NWS/NPD	NPP	NPP/NPD
COTTAGE GROVE	CE	Congress.	NP	NPP/NPD	NPP	NWS/NPD	NPP	NPP/NPD
DORENA	CE	Congress.	NP	NPP/NPD	NPP	NWS/NPD	NPP	NPP/NPD
COUGAR	CE	Congress.	NP	NPP/NPD	NPP	NWS/NPD	NPP	NPP/NPD
BLUE RIVER	CE	Congress.	NP	NPP/NPD	NPP	NWS/NPD	NPP	NPP/NPD
FERN RIDGE	CE	Congress.	NP	NPP/NPD	NPP	NWS/NPD	NPP	NPP/NPD
GREEN PETER	CE	Congress.	NP	NPP/NPD	NPP	NWS/NPD	NPP	NPP/NPD
FOSTER	CE	Congress.	NP	NPP/NPD	NPP	NWS/NPD	NPP	NPP/NPD
DETROIT	CE	Congress.	NP	NPP/NPD	NPP	NWS/NPD	NPP	NPP/NPD
BIG CLIFF	CE	Congress.	NP	NPP/NPD	NPP	NWS/NPD	NPP	NPP/NPD
Scoggins	USBR	Section 7	NP	NPP	NPP	NWS	NPP	NPP/NPD
..... UPPER SNAKE .....								
Jackson Lake	USBR	Section 7	NP	NP	NWS/NPW*	NWS	NPW/NPD*	NPW
Palisades	USBR	Section 7	NP	NP	NWS/NPW*	NWS	NPW/NPD*	NPW
Ririe	USBR	Section 7	NP	NP	NWS*	NWS	NPW/NPD*	NPW
American Falls	USBR	Section 7	NP	NP	NWS*	NWS	NPW/NPD*	NPW
Little Wood	USBR	Section 7	NP	NP	NWS*	NWS	NPW/NPD*	NPW
Owyhee	USBR	Section 7	NP	NP	NWS*	NWS	NPW/NPD*	NPW
Anderson Ranch	USBR	Section 7	NP	NP	NWS/NPW*	NWS	NPW*	NPW
Arrowrock	USBR	Section 7	NP	NP	NWS/NPW*	NWS	NPW*	NPW
LUCKY PEAK	CE	Congress.	NP	NP	NWS/NPW*	NWS	NPW*	NPW
Warm Springs	USBR	Section 7	NP	NP	NWS*	NWS	NPW*	NPW
Agency Valley	USBR	Section 7	NP	NP	NWS*	NWS	NPW*	NPW
Bully Creek	USBR	Section 7	NP	NP	NWS*	NWS	NPW*	NPW
Cascade	USBR	Section 7	NP	NP	NWS*	NWS	NPW*	NPW
Deadwood	USBR	Section 7	NP	NP	NWS*	NWS	NPW*	NPW
Mason	USBR	Section 7	NP	NP	NWS*	NWS	NPW*	NPW
.....MID, LOWER SNAKE .....								
Brownlee	IDAHO POW	FERC License	NP	NP	NWS	NWS	NPW/NPD*	NPW/NPD
Oxbow	IDAHO POW	FERC License	NP	NP	NWS	NWS	NPW/NPD*	NPW/NPD
Hells Canyon	IDAHO POW	FERC License	NP	NP	NWS	NWS	NPW/NPD*	NPW/NPD
DWORSNAK	CE	Congress.	NP	NP	NWS	NWS	NPW	NPW/NPD
LOWER GRANITE	CE	Congress.	NP	NP	NWS	NWS	NPW	NPW/NPD
LITTLE GOOSE	CE	Congress.	NP	NP	NWS	NWS	NPW	NPW/NPD
LOWER MONUMENTAL	CE	Congress.	NP	NP	NWS	NWS	NPW	NPW/NPD
ICE HARBOR	CE	Congress.	NP	NP	NWS	NWS	NPW	NPW/NPD

APPENDIX A  
 NPDR 1165-2-2  
 DISTRICT/DIVISION WATER MANAGEMENT RESPONSIBILITIES

PROJECT	OWNER	AUTHORITY	PRIMARY REGULATION	SECONDARY REGULATION	WATER CNTRL PLAN	WAT SUPL FORECAST	STREAMFLOW FORECAST	WATER CNTRL DATA SYSTEM	WATER CNTRL MANUAL	AFTER-ACTION REPORTING
.....PUGET SOUND .....										
Ross/Diablo	SEATTLE CL	FERC License	NPS		NPS		NWS	NPS*	NPS*	NPS
Upper/Lower Baker	PUGET P&L	FERC License	NPS		NPS		NWS	NPS*	NPS*	NPS
LAKE WASHINGTON	CE	Congress.	NPS		NPS		NWS	NPS	NPS	NPS
HOWARD A HANSON	CE	Congress.	NPS		NPS	NPS	NPS/NWS	NPS	NPS	NPS
MUD MOUNTAIN	CE	Congress.	NPS		NPS	NPS	NPS/NWS	NPS	NPS	NPS
WYNOOCHEE	CE	Congress.	NPS		NPS	NPS	NPS/NWS	NPS	NPS	NPS
.....COASTAL .....										
Galesville	DOUGLAS COUNTY	Section 7	NPP		NPP		NWS	NPP*	NPP*	NPP
LOST CREEK	CE	Congress.	NPP	NPD	NPP		NWS/NPP	NPP	NPP	NPP
ELK CREEK	CE	Congress.	NPP	NPD	NPP		NWS/NPP	NPP	NPP	NPP
Emigrant	USBR	Congress.	NPP	NPP	NPP		NWS/NPP	NPP	NPP	NPP
APPLEGATE	CE	Congress.	NPP	NPD	NPP		NWS/NPP	NPP	NPP	NPP

NOTES

1. Corps of Engineers projects are listed in capital letters
2. Asterisks (\*) indicate that coordination with another agency is required in carrying out the responsibility. This notation was not used for the regulation function, since interagency coordination is assumed to be inherent in the process.
3. When joint responsibilities are shown, the office with lead responsibility is shown first.
4. Headings: "Primary Regulation" - prime responsibility for day-to-day regulation of the project, or coordination required to regulate the project as a part of a system.  
 "Secondary Regulation" - periodic regulation responsibilities along with continuous monitoring of the project's operation.  
 "Water Control Plan" - development and updating of the project's Water Control Plan. This may be for either the project's Water Control Manual or for coordinated system operation.  
 "Water Supply Forecast" - development and updating of water supply forecast procedure for the project.  
 "Streamflow Forecast" - Development, updating and implementation of streamflow forecasting procedure for project.  
 "Water Control Data System" - Development, maintenance, and implementation of project's WCDS.  
 "Water Control Manual" - Development and updating of project's Water Control Manual.  
 "After-Action Reporting" - Routine or special reports such as post-flood reports.

APPENDIX B  
DEFINITIONS AND ACRONYMS

Primary Regulation. For the purposes of this regulation the term primary regulation is meant to indicate the lead regulation responsibility for a project. This involves frequent monitoring of the project, the issuing of operating instructions, and personal contact with project operators. It also involves the necessary analysis required to make regulating decisions.

Secondary Regulation. For purposes of this regulation the term "secondary regulation" means the responsibility to maintain surveillance of their project's regulation to provide information to others and to participate in periodic coordination that may be necessary.

Regulation/Operation. The term "regulation" as applied to water management means the activity of regulating reservoirs, including receiving information and data on reservoir status, making analysis and decisions, coordinating with affected parties/agencies, and issuing instructions to dam operators. In this NPDR the term "regulation" is kept distinct from "operation" which refers to the actions by field personnel of maintaining and physically operating equipment at projects.

Water Control Data Systems (WCDS). A system of gages, telemetry, and computer processors that collects hydrometeorological data from remote sites and sends it to computer controllers for processing and use by water control managers.

Water Control Manual. A manual used as reference for regulating a reservoir project or system of projects. It contains a Water Control Plan, a specific plan of regulation for that project.

BPA Bonneville Power Administration

CBT Columbia Basin Telecommunications Network. A data communication network within CROHMS.

CROHMS The Columbia River Operational Hydromet and Management System, the name given to the Water Control Data System for the Columbia River.

GOES Geostationary Operational Environmental Satellite. A hydromet data collection system within CROHMS.

NWPP Northwest Power Pool.

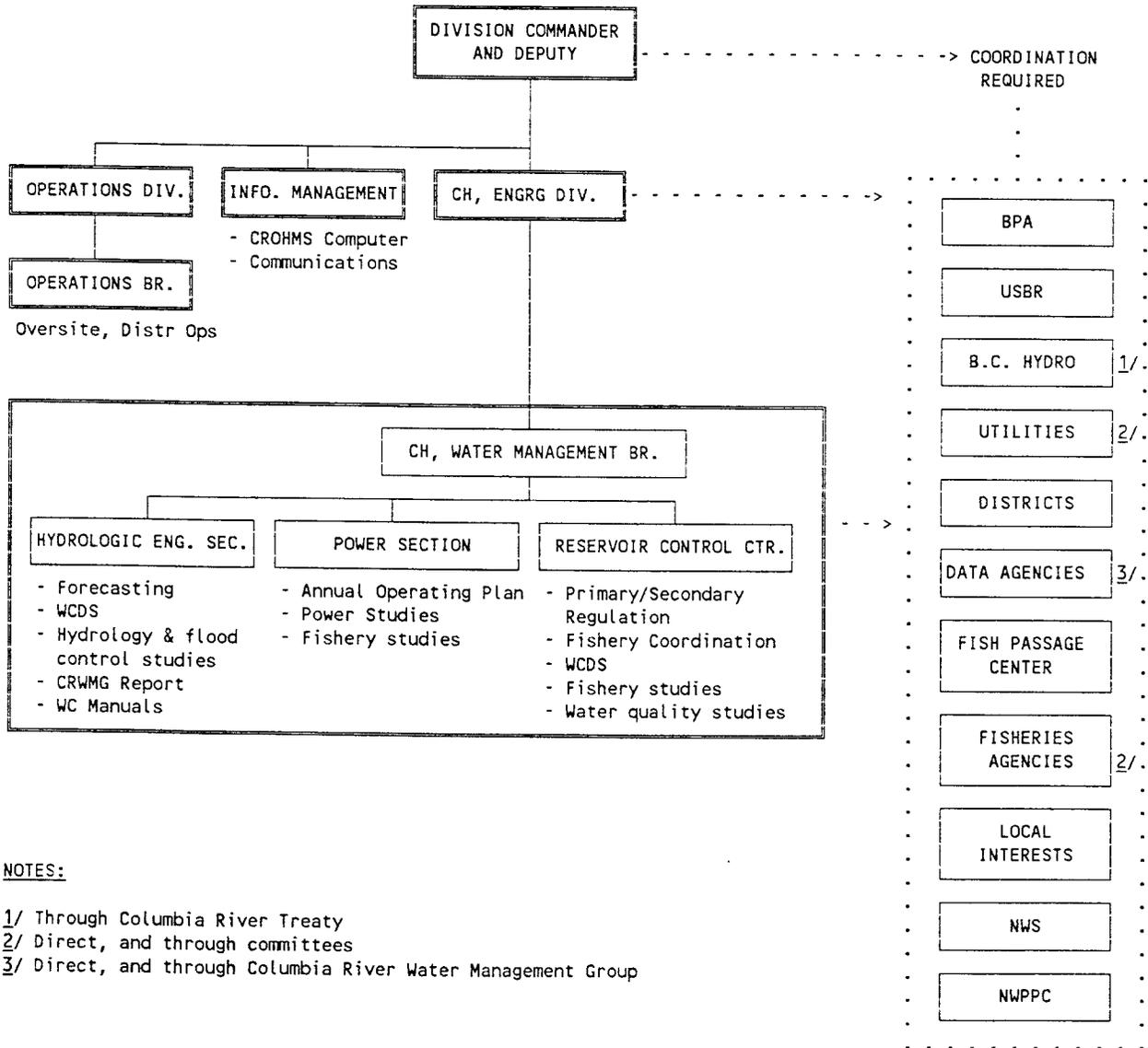
NWRFC Northwest River Forecast Center, National Weather Service.

USBR Bureau of Reclamation

APPENDIX C

DIVISION/DISTRICT ORGANIZATION FOR WATER MANAGEMENT

DIVISION OFFICE



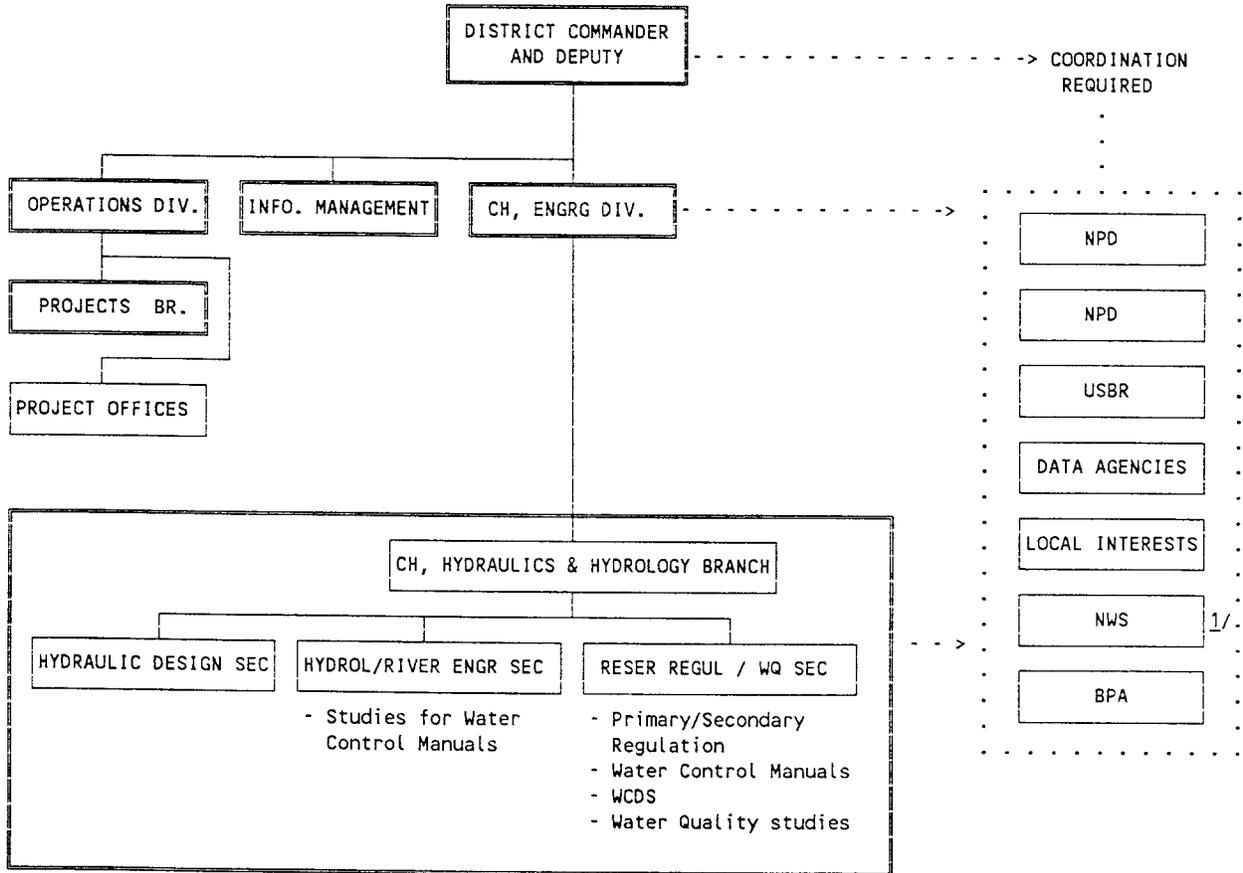
NOTES:

- 1/ Through Columbia River Treaty
- 2/ Direct, and through committees
- 3/ Direct, and through Columbia River Water Management Group

APPENDIX C (CONTINUED)

DIVISION/DISTRICT ORGANIZATION FOR WATER MANAGEMENT

PORTLAND DISTRICT OFFICE



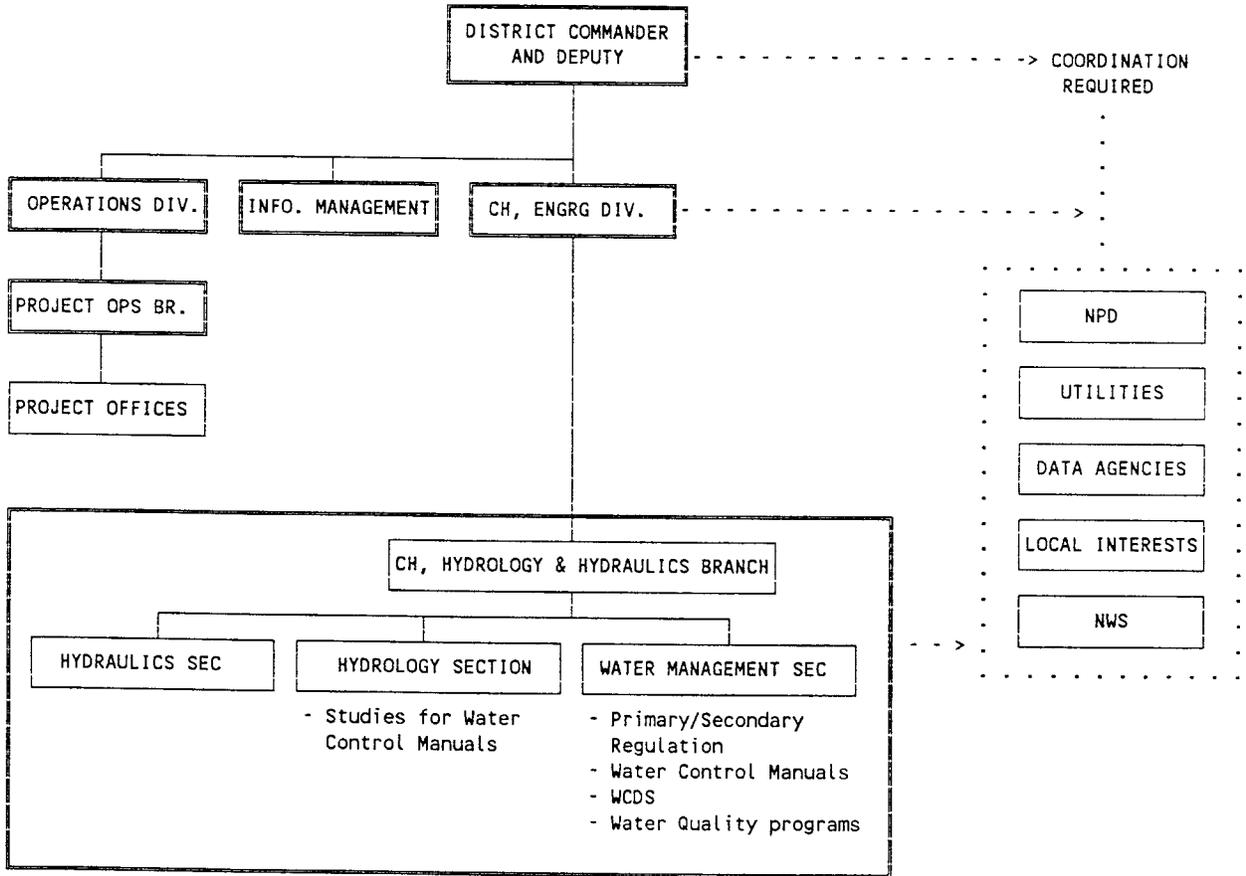
NOTES:

1/ Coordination at Lost Creek

APPENDIX C (CONTINUED)

DIVISION/DISTRICT ORGANIZATION FOR WATER MANAGEMENT

SEATTLE DISTRICT OFFICE



APPENDIX C (CONTINUED)  
DIVISION/DISTRICT ORGANIZATION FOR WATER MANAGEMENT  
WALLA WALLA DISTRICT OFFICE

