

transmitted through the Division Engineer for review and to HQDA (DAEN-CWE) WASH DC 20314 for review and approval. For structures incurring no damage a simple statement to this effect will be all that is required in the report, unless seismic instrumentation at the project is activated. (See paragraph (h)(4) of this section.)

(g) *Training.* The dam safety training program covered by paragraph 6 of ER 1130-2-419 should include post-earthquake inspections and the types of damage operations personnel should look for.

(h) *Responsibilities.* (1) The Engineering Divisions of the District offices will formulate the inspection program, conduct the post-earthquake inspections, process and analyze the data of instrumental and other observations, evaluate the resulting condition of the structures, and prepare the inspection reports. The Engineering division is also responsible for planning special instrumentation felt necessary in selected structures under this program. Engineering Division is responsible for providing the training discussed in paragraph (g) of this section.

(2) The Construction Divisions of the District offices will be responsible for the installation of the earthquake instrumentation devices and for data collection if an earthquake occurs during the construction period.

(3) The Operations Division of the District offices will be responsible for the immediate assessment of earthquake damage and notifying the Chief, Engineering Division as discussed in paragraphs (f)(1) and (2). The Operations Division will also be responsible for earthquake data collection after the construction period in accordance with the instrumental observation programs, and will assist and participate in the post-earthquake inspections.

(4) The U.S. Geological Survey has the responsibility for servicing and collecting all data from strong motion instrumentation at Corps of Engineers dam projects following an earthquake occurrence. However, the U.S. Army Waterways Experiment Station (WES) is assigned the responsibility for analyzing and interpreting these earthquake data. Whenever a recordable earthquake record is obtained from

seismic instrumentation at a Corps project, the Division will send a report of all pertinent instrumentation data to the Waterways Experiment Station, ATTN: WESGH, P.O. Box 631, Vicksburg, Mississippi 39180. The report on each project should include a complete description of the locations and types of instruments and a copy of the instrumental records from each of the strong motion machines activated. (Exempt from requirements control under paragraph 7-2v, AR 335-15).

(5) The Engineering Divisions of the Division offices will select structures for special instrumentation for earthquake effects, and will review and monitor the data collection, processing, evaluating, and inspecting activities. They will also be specifically responsible for promptly informing HQDA (DAEN-CWE) WASH DC 20314, when evaluation of the condition of the structure or analyses of the instrumentation data indicate the stability of a structure is questionable. (Exempt for requirements control under paragraph 7-2o, AR 335-15.)

(6) Division Engineers are responsible for issuing any supplementary regulations necessary to adapt the policies and instructions herein to the specific conditions within their Division.

(i) *Funding.* Funding for the evaluation and inspection program will be under the Appropriation 96X3123, Operations and Maintenance, General. Funds required for the inspections, including Travel and Per Diem costs incurred by personnel of the Division office or the Office, Chief of Engineers, will be from allocations made to the various projects for the fiscal year in which the inspection occurs.

[44 FR 43469, July 25, 1979. Redesignated at 60 FR 19851, Apr. 21, 1995]

§ 222.5 Water control management (ER 1110-2-240).

(a) *Purpose.* This regulation prescribes policies and procedures to be followed by the U.S. Army Corps of Engineers in carrying out water control management activities, including establishment of water control plans for Corps and non-Corps projects, as required by Federal laws and directives.

(b) *Applicability.* This regulation is applicable to all field operating activities having civil works responsibilities.

(c) *References.* Appendix A lists U.S. Army Corps of Engineers publications and sections of Federal statutes and regulations that are referenced herein.

(d) *Authorities*—(1) *U.S. Army Corps of Engineers projects.* Authorities for allocation of storage and regulation of projects owned and operated by the Corps of Engineers are contained in legislative authorization acts and referenced project documents. These public laws and project documents usually contain provisions for development of water control plans, and appropriate revisions thereto, under the discretionary authority of the Chief of Engineers. Some modifications in project operation are permitted under congressional enactments subsequent to original project authorization. Questions that require interpretations of authorizations affecting regulation of specific reservoirs will be referred to CDR USACE (DAEN-CWE-HW), WASH DC 20314, with appropriate background information and analysis, for resolution.

(2) *Non-Corps projects.* The Corps of Engineers is responsible for prescribing flood control and navigation regulations for certain reservoir projects constructed or operated by other Federal, non-Federal or private agencies. There are several classes of such projects: Those authorized by special acts of Congress; those for which licenses issued by the Federal Energy Regulatory Commission (formerly Federal Power Commission) provide that operation shall be in accordance with instructions of the Secretary of the Army; those covered by agreements between the operating agency and the Corps of Engineers; and those that fall under the terms of general legislative and administrative provisions. These authorities, of illustrative examples, are described briefly in Appendix B.

(e) *Terminology: Water control plans and reservoir regulation schedules.* (1) Water control plans include coordinated regulation schedules for project/system regulation and such additional provisions as may be required to collect, analyze and disseminate basic data, prepare detailed operating instructions, assure project safety and

carry out regulation of projects in an appropriate manner.

(2) The term “reservoir regulation schedule” refers to a compilation of operating criteria, guidelines, rule curves and specifications that govern basically the storage and release functions of a reservoir. In general, schedules indicate limiting rates of reservoir releases required during various seasons of the year to meet all functional objectives of the particular project, acting separately or in combination with other projects in a system. Schedules are usually expressed in the form of graphs and tabulations, supplemented by concise specifications.

(f) *General policies.* (1) Water control plans will be developed for reservoirs, locks and dams, reregulation and major control structures and inter-related systems to conform with objectives and specific provisions of authorizing legislation and applicable Corps of Engineers reports. They will include any applicable authorities established after project construction. The water control plans will be prepared giving appropriate consideration to all applicable Congressional Acts relating to operation of Federal facilities, *i.e.*, Fish and Wildlife Coordination Act (Pub. L. 85-624), Federal Water Project Recreation Act-Uniform Policies (Pub. L. 89-72), National Environmental Policy Act of 1969 (Pub. L. 91-190), and Clean Water Act of 1977 (Pub. L. 95-217). Thorough analysis and testing studies will be made as necessary to establish the optimum water control plans possible within prevailing constraints.

(2) Necessary actions will be taken to keep approved water control plans up-to-date. For this purpose, plans will be subject to continuing and progressive study by personnel in field offices of the Corps of Engineers. These personnel will be professionally qualified in technical areas involved and familiar with comprehensive project objectives and other factors affecting water control. Organizational requirements for water control management are further discussed in ER 1110-2-1400.

(3) Water control plans developed for specific projects and reservoir systems will be clearly documented in appropriate water control manuals. These

manuals will be prepared to meet initial requirements when storage in the reservoir begins. They will be revised as necessary to conform with changing requirements resulting from developments in the project area and downstream, improvements in technology, new legislation and other relevant factors, provided such revisions comply with existing Federal regulations and established Corps of Engineers policy.

(4) Development and execution of water control plans will include appropriate consideration for efficient water management in conformance with the emphasis on water conservation as a national priority. The objectives of efficient water control management are to produce beneficial water savings and improvements in the availability and quality of water resulting from project regulation/operation. Balanced resource use through improved regulation should be developed to conserve as much water as possible and maximize all project functions consistent with project/system management. Continuous examination should be made of regulation schedules, possible need for storage reallocation (within existing authority and constraints) and to identify needed changes in normal regulation. Emphasis should be placed on evaluating conditions that could require deviation from normal release schedules as part of drought contingency plans (ER 1110-2-1941).

(5) Adequate provisions for collection, analysis and dissemination of basic data, the formulation of specific project regulation directives, and the performance of project regulation will be established at field level.

(6) Appropriate provisions will be made for monitoring project operations, formulating advisories to higher authorities, and disseminating information to others concerned. These actions are required to facilitate proper regulation of systems and to keep the public fully informed regarding all pertinent water control matters.

(7) In development and execution of water control plans, appropriate attention will be given to project safety in accordance with ER 1130-2-417 and ER 1130-2-419 so as to insure that all water impounding structures are operated for the safety of users of the facilities and

the general public. Care will be exercised in the development of reservoir regulation schedules to assure that controlled releases minimize project impacts and do not jeopardize the safety of persons engaged in activities downstream of the facility. Water control plans will include provisions for issuing adequate warnings or otherwise alerting all affected interests to possible hazards from project regulation activities.

(8) In carrying out water control activities, Corps of Engineers personnel must recognize and observe the legal responsibility of the National Weather Service (NWS), National Oceanic and Atmospheric Administration (NOAA), for issuing weather forecasts and flood warnings, including river discharges and stages. River forecasts prepared by the Corps of Engineers in the execution of its responsibilities should not be released to the general public, unless the NWS is willing to make the release or agrees to such dissemination. However, release to interested parties of factual information on current storms or river conditions and properly quoted NWS forecasts is permissible. District offices are encouraged to provide assistance to communities and individuals regarding the impact of forecasted floods. Typical advice would be to provide approximate water surface elevations at locations upstream and downstream of the NWS forecasting stream gages. Announcement of anticipated changes in reservoir release rates as far in advance as possible to the general public is the responsibility of Corps of Engineers water control managers for projects under their jurisdiction.

(9) Water control plans will be developed in concert with all basin interests which are or could be impacted by or have an influence on project regulation. Close coordination will be maintained with all appropriate international, Federal, State, regional and local agencies in the development and execution of water control plans. Effective public information programs will be developed and maintained so as to inform and educate the public regarding Corps of Engineers water control management activities.

(10) Fiscal year budget requests for water control management activities

will be prepared and submitted to the Office of the Chief of Engineers in accordance with requirements established in Engineer Circular on Annual Budget Requests for Civil Works Activities. The total annual costs of all activities and facilities that support the water control functions, (excluding physical operation of projects, but including flood control and navigation regulation of projects subject to 33 CFR 208.11) are to be reported. Information on the Water Control Data Systems and associated Communications Category of the Plant Replacement and Improvement Program will be submitted with the annual budget. Reporting will be in accordance with the annual Engineer Circular on Civil Works Operations and Maintenance, General Program.

(g) *Responsibilities: US Army Corps of Engineers projects*—(1) *Preparation of water control plans and manuals.* Normally, district commanders are primarily responsible for background studies and for developing plans and manuals required for reservoirs, locks and dams, reregulation and major control structures and interrelated systems in their respective district areas. Policies and general guidelines are prescribed by OCE engineer regulations while specific requirements to implement OCE guidance are established by the division commanders concerned. Master Water Control Manuals for river basins that include more than one district are usually prepared by or under direct supervision of division representatives. Division commanders are responsible for providing such management and technical assistance as may be required to assure that plans and manuals are prepared on a timely and adequate basis to meet water control requirements in the division area, and for pertinent coordination among districts, divisions, and other appropriate entities.

(2) *Public involvement and information*—(i) *Public meeting and public involvement.* The Corps of Engineers will sponsor public involvement activities, as appropriate, to appraise the general public of the water control plan. In developing or modifying water control manuals, the following criteria is applicable.

(A) Conditions that require public involvement and public meetings include: Development of a new water control manual that includes a water control plan; or revision or update of a water control manual that changes the water control plan.

(B) Revisions to water control manuals that are administratively or informational in nature and that do not change the water control plan do not require public meetings.

(C) For those conditions described in paragraph (g)(2)(i)(A) of this section, the Corps will provide information to the public concerning proposed water control management decisions at least 30 days in advance of a public meeting. In so doing, a separate document(s) should be prepared that explains the recommended water control plan or change, and provides technical information explaining the basis for the recommendation. It should include a description of its impacts (both monetary and nonmonetary) for various purposes, and the comparisons with alternative plans or changes and their effects. The plan or manual will be prepared only after the public involvement process associated with its development or change is complete.

(D) For those conditions described in paragraph (g)(2)(i)(A) of this section, the responsible division office will send each proposed water control manual to the Army Corps of Engineers Headquarters, Attn: CECW-EH-W for review and comments prior to approval by the responsible division office.

(i) *Information availability.* The water control manual will be made available for examination by the general public upon request at the appropriate office of the Corps of Engineers. Public notice shall be given in the event of occurring or anticipated significant changes in reservoir storage or flow releases. The method of conveying this information shall be commensurate with the urgency of the situation and the lead time available.

(3) *Authority for approval of plans and manuals.* Division commanders are delegated authority for approval of water control plans and manuals, and associated activities.

(4) *OCE role in water control activities.* OCE will establish policies and guidelines applicable to all field offices and for such actions as are necessary to assure a reasonable degree of consistency in basic policies and practices in all Division areas. Assistance will be provided to field offices during emergencies and upon special request.

(5) *Methods improvement and staff training.* Division and district commanders are responsible for conducting appropriate programs for improving technical methods applicable to water control activities in their respective areas. Suitable training programs should be maintained to assure a satisfactory performance capability in water control activities. Appropriate coordination of such programs with similar activities in other areas will be accomplished to avoid duplication of effort, and to foster desirable exchange of ideas and developments. Initiative in re-evaluating methods and guidelines previously established in official documents referred to in paragraph (e) of this section is encouraged where needs are evident. However, proposals for major deviations from basic concepts, policies and general practices reflected in official publications will be submitted to CDR USACE (DAEN-CWE) WASH DC 20314 for concurrence or comment before being adopted for substantial application in actual project regulation at field level.

(h) *Directives and technical instruction manuals.* (1) Directives issued through OCE Engineer Regulations will be used to foster consistency in policies and basic practices. They will be supplemented as needed by other forms of communication.

(2) Engineering Manuals (EM) and Engineer Technical Letters (ETL) are issued by OCE to serve as general guidelines and technical aids in developing water control plans and manuals for individual projects or systems.

(3) EM 1110-2-3600 discusses principles and concepts involved in developing water control plans. Instructions relating to preparation of "Water Control Manuals for specific projects" are included. EM 1110-2-3600 should be used as a general guide to water control activities. The instructions are sufficiently flexible to permit adaptation to

specific regions. Supplemental information regarding technical methods is provided in numerous documents distributed to field offices as "hydrologic references."

(4) Special assistance in technical studies is available from the Hydrologic Engineering Center, Corps of Engineers, 609 Second Street, Davis, California 95616 and DAEN-CWE-HW.

(i) *Water control manuals for US Army Corps of Engineers projects.* (1) As used herein, the term "water control manual" refers to manuals that relate primarily to the functional regulation of an individual project or system of projects. Although such manuals normally include background information concerning physical features of projects, they do not prescribe rules or methods for physical maintenance or care of facilities, which are covered in other documents. (References 15 and 23, Appendix A.)

(2) Water control manuals prepared in substantially the detail and format specified in instructions referred to in paragraph 8 are required for all reservoirs under the supervision of the Corps of Engineers, regardless of the purpose or size of the project. Water Control manuals are also required for lock and dam, reregulation and major control structure projects that are physically regulated by the Corps of Engineers. Where there are several projects in a drainage basin with inter-related purposes, a "Master Manual" shall be prepared. The effects of non-Corps projects will be considered in appropriate detail, including an indication of provisions for interagency coordination.

(3) "Preliminary water control manuals," for projects regulated by the Corps of Engineers should contain regulation schedules in sufficient detail to establish the basic plan of initial project regulation.

(4) As a general rule, preliminary manuals should be superseded by more detailed interim or "final" manuals within approximately one year after the project is placed in operation.

(5) Each water control manual will contain a section on special regulations to be conducted during emergency situations, including droughts.

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Preplanned operations and coordination are essential to effective relief or assistance.

(6) One copy of all water control manuals and subsequent revisions shall be forwarded to DAEN-CWE-HW for file purposes as soon as practicable after completion, preferably within 30 days from date of approval at the division level.

(j) *Policies and requirements for preparing regulations for non-Corps projects.*

(1) Division and district commanders will develop water control plans as required by section 7 of the 1944 Flood Control Act, the Federal Power Act and section 9 of Pub. L. 436-83 for all projects located within their areas, in conformance with ER 1110-2-241, 33 CFR part 208. That regulation prescribes the policy and general procedures for regulating reservoir projects capable of regulation for flood control or navigation, except projects owned and operated by the Corps of Engineers; the International Boundary and Water Commission, United States and Mexico; those under the jurisdiction of the International Joint Commission, United States and Canada, and the Columbia River Treaty. ER 1110-2-241, 33 CFR part 208 permits the promulgation of specific regulations for a project in compliance with the authorizing acts, when agreement on acceptable regulations cannot be reached between the Corps Engineers and the owners. Appendix B provides a summary of the Corps of Engineers responsibilities for prescribing regulations for non-Corps reservoir projects.

(2) Water control plans will be developed and processed as soon as possible for applicable projects already completed and being operated by other entities, including projects built by the Corps of Engineers and turned over to others for operation.

(3) In so far as practicable, water control plans for non-Corps projects should be developed in cooperation with owning/operating agencies involved during project planning stages. Thus, tentative agreements on contents, including pertinent regulation schedules and diagrams, can be accomplished prior to completion of the project.

(4) The magnitude and nature of storage allocations for flood control or

navigation purposes in non-Corps projects are governed basically by conditions of project authorizations or other legislative provisions and may include any or all of the following types of storage assignments:

(i) Year-round allocations: Storage remains the same all year.

(ii) Seasonal allocations: Storage varies on a fixed seasonal basis.

(iii) Variable allocations of flood control from year to year, depending on hydrologic parameters, such as snow cover.

(5) Water control plans should be developed to attain maximum flood control or navigation benefits, consistent with other project requirements, from the storage space provided for these purposes. When reservoir storage capacity of the category referred to in paragraph (j)(4)(iii) is utilized for flood control or navigation, jointly with other objectives, the hydrologic parameters and related rules developed under provisions of ER 1110-2-241, 33 CFR part 208 should conform as equitably as possible with the multiple-purpose objectives established in project authorizations and other pertinent legislation.

(6) Storage allocations made for flood control or navigation purposes in non-Corps projects are not subject to modifications by the Corps of Engineers as a prerequisite for prescribing 33 CFR 208.11 regulations. However, regulations developed for use of such storage should be predicated on a mutual understanding between representatives of the Corps and the operating agency concerning the conditions of the allocations in order to assure reasonable achievement of basic objectives intended. In the event field representatives of the Corps of Engineers, and the operating agency are unable to reach necessary agreements after all reasonable possibilities have been explored, appropriate background explanations and recommendations should be submitted to DAEN-CWE-HW for consideration.

(7) The Chief of Engineers is responsible for prescribing regulations for use of flood control or navigation storage and/or project operation under the provisions of the referenced legislative acts. Accordingly, any regulations established should designate the division/

district commander who is responsible to the Chief of Engineers as the representative to issue any special instructions required under the regulation. However, to the extent practicable, project regulations should be written to permit operation of the project by the owner without interpretations of the regulations by the designated representative of the Commander during operating periods.

(8) Responsibility for compliance with 33 CFR 208.11 regulations rests with the operating agency. The division or district commander of the area in which the project is located will be kept informed regarding project operations to verify reasonable conformance with the regulations. The Chief of Engineers or his designated representative may authorize or direct deviation from the established water control plan when conditions warrant such deviation. In the event unapproved deviations from the prescribed regulations seem evident, the division or district commander concerned will bring the matter to the attention of the operating agency by appropriate means.

If corrective actions are not taken promptly, the operating agency should be notified of the apparent deviation in writing as a matter of record. Should an impasse arise, in that the project owner or the designated operating entity persists in noncompliance with regulations prescribed by the Corps of Engineers, the Office of Chief Counsel should be advised through normal channels and requested to take necessary measures to assure compliance.

(9) Regulations should contain information regarding the required exchange of basic data between the representative of the operating agency and the U.S. Army Corps of Engineers, that are pertinent to regulation and coordination of interrelated projects in the region.

(10) All 33 CFR 208.11 regulations shall contain provisions authorizing the operating agency to temporarily deviate from the regulations in the event that it is necessary for emergency reasons to protect the safety of the dam, to avoid health hazards, and to alleviate other critical situations.

(k) *Developing and processing regulations for non-Corps projects.* Guidelines

concerning technical studies and development of regulations are contained in ER 1110-2-241, 33 CFR part 208 and EM 1110-2-3600. Appendix C of this regulation summarizes steps normally followed in developing and processing regulations for non-Corps projects.

(1) *Water control during project construction stage.* Water control plans discussed in preceding paragraphs are intended primarily for application after the dam, spillway and outlet structures; major relocations; land acquisitions, administrative arrangements and other project requirements have reached stages that permit relatively normal project regulation. With respect to non-Corps projects, regulations normally become applicable when water control agreements have been signed by the designated signatories, subject to special provisions in specific cases. In some instances, implementation of regulations has been delayed by legal provisions, contract limitations, or other considerations. These delays can result in loss of potential project benefits and possible hazards. Accordingly, it is essential that appropriate water control and contingency plans be established for use from the date any storage may accumulate behind a partially completed dam until the project is formally accepted for normal operations. Division commanders shall make certain that construction-stage regulation plans are established and maintained in a timely and adequate manner for projects under the supervision of the Corps of Engineers. In addition, the problems referred to should be discussed with authorities who are responsible for non-Corps projects, with the objective of assuring that such projects operate as safely and effectively as possible during the critical construction stage and any period that may elapse before regular operating arrangements have been established. These special regulation plans should include consideration for protection of construction operations; safety of downstream interests that might be jeopardized by failure of partially completed embankments; requirements for minimizing adverse effects on partially completed relocations or incomplete land acquisition; and the need for obtaining benefits from project storage

that can be safely achieved during the construction and early operation period.

(m) *Advisories to OCE regarding water control activities*—(1) *General*. Division commanders will keep the Chief of Engineers currently informed of any unusual problems or activities associated with water control that impact on his responsibilities.

(2) *Annual division water control management report (RCS DAEN-CWE-16(R1))*. Division commanders will submit an annual report on water control management activities within their division. The annual report will be submitted to (DAEN-CWE-HW) by 1 February each year and cover significant activities of the previous water year and a description of activities to be accomplished for the current year. Funding information for water control activities will be provided in the letter of transmittal for in-house use only. The primary objective of this summary is to keep the Chief of Engineers informed regarding overall water management activities Corps-wide, thus providing a basis to carry out OCE responsibilities set forth in paragraph (g)(4) of this section.

(3) *Status of water control manuals*. A brief discussion shall be prepared annually by each division commander, as a separate section of the annual report on water control management activities discussed in paragraph (m)(2) of this section listing all projects currently in operation in his area, or expected to begin operation within one-year, with a designation of the status of water control manuals. The report should also list projects for which the Corps of Engineers is responsible for prescribing regulations, as defined in ER 1110-2-241, 33 CFR part 208.

(4) *Monthly water control charts (RCS DAEN-CWE-6 (R1))*. A monthly record of reservoirs/lakes operated by the Corps of Engineers and other agencies, in accordance with 33 CFR 208.11, will be promptly prepared and maintained by district/division commanders in a form readily available for transmittal to the Chief of Engineers, or others, upon request. Record data may be prepared in either graphical form as shown in EM 1110-2-3600, or tabular

form as shown in the sample tabulation in Appendix D.

(5) *Annual division water quality reports (RCS DAEN-CWE-15)*. By Executive Order 12088, the President ordered the head of each Executive Agency to be responsible for ensuring that all necessary actions are taken for prevention, control, and abatement of environmental pollution with respect to Federal facilities and activities under control of the agency. General guidance is provided in references 24 and 25, Appendix A, for carrying out this agency's responsibility. Annual division water quality reports are required by reference 24, Appendix A. The report is submitted in two parts. The first part addresses the division Water quality management plan while the second part presents specific project information. A major objective of this report is to summarize information pertinent to water quality aspects of overall water management responsibilities. The annual division water quality report may be submitted along with the annual report on water control management activities discussed in paragraph 13b above.

(6) *Master plans for water control data systems (RCS DAEN-CWE-21)*. (i) A water control data system is all of the equipment within a division which is used to acquire, process, display and distribute information for real-time project regulation and associated inter-agency coordination. A subsystem is all equipment as defined previously within a district. A network is all equipment as defined previously which is used to regulate a single project or a group of projects which must be regulated interdependently.

(ii) Master plans for water control data systems and significant revisions thereto will be prepared by division water control managers and submitted to DAEN-CWE-HW by 1 February each year for review and approval of engineering aspects. Engineering approval does not constitute funding approval. After engineering approval is obtained, equipment in the master plan is eligible for consideration in the funding processes described in ER 1125-2-301

and engineering circulars on the annual budget request for civil works activities. Master plans will be maintained current and will:

(A) Outline the system performance requirements, including those resulting from any expected expansions of Corps missions.

(B) Describe the extent to which existing facilities fulfill performance requirements.

(C) Describe alternative approaches which will upgrade the system to meet the requirements not fulfilled by existing facilities, or are more cost effective than the existing system.

(D) Justify and recommend a system considering timeliness, reliability, economics and other factors deemed important.

(E) Delineate system scope, implementation schedules, proposed annual capital expenditures by district, total costs, and sources of funding.

(iii) Modified master plans should be submitted to DAEN-CWE-HW by 1 February, whenever revisions are required, to include equipment not previously approved or changes in scope or approach. Submittal by the February date will allow adequate time for OCE review and approval prior to annual budget submittals.

(iv) Division commanders are delegated authority to approve detailed plans for subsystems and networks of approved master plans. Plans approved by the division commander should meet the following conditions:

(A) The plan conforms to an approved master plan.

(B) The equipment is capable of functioning independently.

(C) An evaluation of alternatives has been completed considering reliability, cost and other important factors.

(D) The plan is economically justified, except in special cases where legal requirements dictate performance standards which cannot be economically justified.

(v) Copies of plans approved by the division commander shall be forwarded to appropriate elements in OCE in support of funding requests and to obtain approval of Automatic Data Processing Equipment (ADPE), when applicable.

(vi) Water control data systems may be funded from Plant Revolving Fund;

O&M General; Flood Control, MR&T, and Construction, General. Funding for water control equipment that serves two or more projects will be from Plant Revolving Fund in accordance with ER 1125-2-301. District and division water control managers will coordinate plant revolving fund requests with their respective Plant Replacement and Improvement Program (PRIP) representatives following guidance provided in ER 1125-2-301. Budget funding requests under the proper appropriation title should be submitted only if the equipment is identified in an approved master plan.

(vii) Justification for the Automatic Data Processing Equipment (ADPE) aspects of water control data systems must conform to AR 18-1, Appendix I or J as required. The "Funding for ADPE" paragraph in Appendixes I and J must cite the source of funds and reference relevant information in the approved master plan and detailed plan.

(viii) Division water control managers will submit annual letter summaries of the status of their respective water control systems and five-year plan for improvements. These summaries will be submitted to DAEN-CWE by 1 June for coordination with DAEN-CWO, CWB and DSZ-A, prior to the annual budget request. Summaries should not be used to obtain approval of significant changes in master plans. Sources of funding for all items for each district and for the division should be delineated so that total system expenditures and funding requests are identified. Changes in the master plan submitted 1 February should be documented in this letter summary if the changes were approved.

(7) *Summary of runoff potentials in current season (RCS DAEN-CWO-2).* (i) The Chief of Engineers and staff require information to respond to inquiries from members of Congress and others regarding runoff potentials. Therefore, the division commander will submit a snowmelt runoff and flood potential letter report covering the snow accumulation and runoff period, beginning generally in February and continuing monthly, until the potential no longer exist. Dispatch of supplemental reports will be determined by the urgencies of situations as they occur. The reports

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will be forwarded as soon as hydrologic data are available, but not later than the 10th of the month. For further information on reporting refer to ER 500-1-1, 33 CFR part 203.

(ii) During major drought situations or low-flow conditions, narrative summaries of the situation should be furnished to alert the Chief of Engineers regarding the possibility of serious runoff deficiencies that are likely to call for actions associated with Corps of Engineers reservoirs.

(iii) The reports referred to in paragraphs (m)(7) (i) and (ii) of this section will include general summaries regarding the status of reservoir storage, existing and forecasted at the time of the reports.

(8) *Reports on project operations during flood emergencies.* Information on project regulations to be included in reports submitted to the Chief of Engineers during flood emergencies in accordance with ER 500-1-1 include rate of inflow and outflow in CFS, reservoir levels, predicted maximum level and anticipated date, and percent of flood control storage utilized to date. Maximum use should be made of computerized communication facilities in reporting project status to DAEN-CWOE/CWE-HW in accordance with the requirements of ER 500-1-1, 33 CFR part 203.

(9) *Post-flood summaries of project regulation.* Project regulation effects including evaluation of the stage reductions at key stations and estimates of damages prevented by projects will be included in the post flood reports required by ER 500-1-1, 33 CFR part 203.

(n) *Water Control Management Boards.*

(1) The Columbia River Treaty Permanent Engineering Board was formed in accordance with the Columbia River Treaty with Canada. This board, composed of U.S. and Canadian members, oversees the implementation of the Treaty as carried out by the U.S. and Canadian Entities.

(2) The Mississippi River Water Control Management Board was established by ER 15-2-13. It consists of the Division Commanders from LMVD, MRD, NCD, ORD, and SWD with the Director of Civil Works serving as chairman. The purposes of the Board are:

(i) To provide oversight and guidance during the development of basin-wide management plans for Mississippi River Basin projects for which the US Army Corps of Engineers has operation/regulation responsibilities.

(ii) To serve as a forum for resolution of water control problems among US Army Corps of Engineers Divisions within the Mississippi River Basin when agreement is otherwise unobtainable.

(o) *List of projects.* Projects owned and operated by the Corps of Engineers subject to this regulation are listed with pertinent data in Appendix E. This list will be updated periodically to include Corps projects completed in the future. Federal legislation, Federal regulations and local agreements have given the Corps of Engineers wide responsibilities for operating projects which it does not own. Non-Corps projects subject to this regulation are included in Appendix A of ER 1110-2-241.

APPENDIX A TO § 222.5—REFERENCES

1. The Federal Power Act, Pub. L. 436-83, approved 10 June 1920, as amended (41 Stat. 1063; 16 U.S.C. 791(a))
2. Section 3 of the Flood Control Act approved 22 June 1936, as amended (49 Stat. 1571; 33 U.S.C. 701(c))
3. Section 9(b) of Reclamation Project Act of 1939, approved 4 August 1939 (53 Stat. 1187; 43 U.S.C. 485)
4. Section 7 of the Flood Control Act approved 22 December 1944 (58 Stat. 890; 33 U.S.C. 709)
5. Section 5 of Small Reclamation Projects Act of 6 August 1956, as amended (70 Stat. 1046; 43 U.S.C. 422(e))
6. Section 9 of Pub. L. 436-83d Congress (68 Stat. 303)
7. The Fish and Wildlife Coordination Act of 1958, Pub. L. 85-624
8. The Federal Water Project Recreation Act Uniform Policies, Pub. L. 89-72
9. The National Environmental Policy Act of 1969, Pub. L. 91-190
10. The Clean Water Act of 1977, Pub. L. 95-217
11. Executive Order 12088, Federal Compliance with Pollution Control Standards, 13 October 1978
12. 33 CFR 208.10, Local flood protection works; maintenance and operation of structures and facilities (9 FR 9999; 9 FR 10203)
13. 33 CFR 208.11, Regulations for use of Storage Allocated for Flood Control or Navigation and/or Project Operation at Reservoirs

subject to Prescription of Rules and Regulations by the Secretary of the Army in the Interest of Flood Control and Navigation (43 FR 47184)

14. AR 18-1
15. ER 11-2-101
16. ER 15-2-13
17. ER 500-1-1, 33 CFR part 203
18. ER 1110-2-241, 33 CFR part 208
19. ER 1110-2-1400
20. ER 1110-2-1402
21. ER 1110-2-1941
22. ER 1125-2-301
23. ER 1130-2-303
24. ER 1130-2-334
25. ER 1130-2-415
26. ER 1130-2-417
27. ER 1130-2-419
28. EM 1110-2-3600

APPENDIX B to § 222.5—SUMMARY OF CORPS OF ENGINEERS RESPONSIBILITIES FOR PRESCRIBING REGULATIONS FOR NON-CORPS RESERVOIR PROJECTS

Summary

1. (a) "Regulations for Use of Storage Allocated for Flood Control or Navigation and/or Project Operation at Reservoirs subject to Prescription of Rules and Regulations by the Secretary of the Army in the Interest of Flood Control and Navigation" (33 CFR 208.11) prescribe the responsibilities and general procedures for regulating reservoir projects capable of regulation for flood control or navigation and the use of storage allocated for such purposes and provided on the basis of flood control and navigation, except projects owned and operated by the Corps of Engineers; the International Boundary and Water Commission, United States and Mexico; and those under the jurisdiction of the International Joint Commission, United States and Canada, and the Columbia River Treaty.

(b) Pertinent information on projects for which regulations are prescribed under Section 7 of the 1944 Flood Control Act, (Pub. L. 78-58 Stat. 890 (33 U.S.C. 709)) the Federal Power Act (41 Stat. 1063 (16 U.S.C. 791(A))) and Section 9 of Pub. L. 436-83d Congress (68 Stat. 303) is published in the FEDERAL REGISTER in accordance with 33 CFR 208.11.

Publication in the FEDERAL REGISTER establishes the fact and the date of a project's regulation plan promulgation.

2. Section 7 of Act of Congress approved 22 December 1944 (58 Stat. 890; 33 U.S.C. 709), reads as follows:

"Hereafter, it shall be the duty of the Secretary of War to prescribe regulations for the use of storage allocated for flood control or navigation at all reservoirs constructed wholly or in part with Federal funds provided on the basis of such purposes, and the operation of any such project shall be in accordance with such regulations: *Provided,*

That this section shall not apply to the Tennessee Valley Authority, except that in case of danger from floods on the Lower Ohio and Mississippi Rivers the Tennessee Valley Authority is directed to regulate the release of water from the Tennessee River into the Ohio River in accordance with such instructions as may be issued by the War Department."

3. Section 9(b) of the Reclamation Project Act of 1939, approved 4 August 1939 (53 Stat. 1189, 43 U.S.C. 485), provides that the Secretary of the Interior may allocate to flood control or navigation as part of the cost of new projects or supplemental works; and that in connection therewith he shall consult with the Chief of Engineers and may perform any necessary investigations under a cooperative agreement with the Secretary of the Army. These projects are subject to 33 CFR 208.11 regulations.

4. Several dams have been constructed by State agencies under provisions of legislative acts wherein the Secretary of the Army is directed to prescribe rules and regulations for project operation in the interest of flood control and navigation. These projects are subject to 33 CFR 208.11 regulations.

5. There are few dams constructed under Emergency Conservation work authority or similar programs, where the Corps of Engineers has performed major repairs or rehabilitation, that are operated and maintained by local agencies which are subject to 33 CFR 208.11 regulations.

6. The Federal Power Act, approved 10 June 1920, as amended (41 Stat. 1063, 16 U.S.C. 791 (A)), established the Federal Power Commission, now Federal Energy Regulatory Commission (FERC), with authority to issue licenses for constructing, operating, and maintaining dams or other project works for the development of navigation, for utilization of water power and for other beneficial public uses in any streams over which Congress has jurisdiction. The Chief of Engineers is called upon for advice and assistance as needed in formulating reservoir regulation requirements somewhat as follows:

a. In response to requests from the FERC, opinions and technical appraisals are furnished by the Corps of Engineers for consideration prior to issuance of licenses by the FERC. Such assistance may be limited to general presentations, or may include relatively detailed proposals for water control plans, depending upon the nature and scope of projects under consideration. The information furnished is subject to such consideration and use as the Chairman, FERC, deems appropriate. This may result in inclusion of simple provisions in licenses without elaboration, or relatively detailed requirements for reservoir regulation schedules and plans.

b. Some special acts of Congress provide for construction of dams and reservoirs by non-Federal agencies or private firms under

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licenses issued by the FERC, subject to stipulation that the operation and maintenance of the dams shall be subject to reasonable rules and regulations of the Secretary of the Army in the interest of flood control and navigation. Ordinarily no Federal funds are involved, thus Section 7 of the 1944 Flood Control Act does not apply. However, if issuance of regulations by the Secretary of the Army is required by the authority under which flood control or navigation provisions are included as functions of the specific project or otherwise specified in the FERC license, regulation plans will be prescribed in accordance with 33 CFR 208.11 regulations.

7. Projects constructed by the Corps of Engineers for local flood protection purposes are subject to conditions of local cooperation as provided in Section 3 of the Flood Control Act approved 22 June 1936, as amended. One of those conditions is that a responsible local agency will maintain and operate all works after completion in accordance with regulations prescribed by the Secretary of the Army. Most such projects consist mainly of levees and flood walls with appurtenant drainage structures. Regulations for operation and maintenance of these projects has been prescribed by the Secretary of the Army in 33 CFR 208.10. When a reservoir is included in such a project, it may be appropriate to apply 33 CFR 208.10 in establishing regulations for operation, without requiring their publication in the FEDERAL REGISTER. For example, if the reservoir controls a small drainage area, has an uncontrolled flood control outlet with automatic operation or contains less than 12,500 acre-feet of flood control or navigation storage, 33 CFR 208.10 may be suitable. However, 33 CFR 208.11 regulations normally would be applicable in prescribing flood control regulations for the individual reservoir, if the project has a gated flood control outlet by which the local agency can regulate floods.

8. Regulation plans for projects owned by the Corps of Engineers are not prescribed in accordance with 33 CFR 208.11. However, regulation plans for projects constructed by the Corps of Engineers and turned over to other agencies or local interests for operation may be prescribed in accordance with 33 CFR 208.11.

9. The Small Reclamation Projects Act of 6 August 1956 provides that the Secretary of the Interior may make loans or grants to local agencies for the construction of reclamation projects. Section 5 of the Act provides in part that the contract covering any such grant shall set forth that operation be in accordance with regulations prescribed by the head of the Federal department or agency primarily concerned. Normally, 33 CFR 208.11 is not applicable to these projects.

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APPENDIX C TO § 222.5—PROCEDURES FOR DEVELOPING AND PROCESSING REGULATIONS FOR NON-CORPS PROJECTS IN CONFORMANCE WITH 33 CFR 208.11

1. *Sequence of actions.* a. Discussions leading to a clarification of conditions governing allocations of storage capacity to flood control or navigation purposes and project regulation are initiated by District/Division Engineers through contacts with owners and/or operating agencies concerned at regional level.

b. Background information on the project and conditions requiring flood control or navigation services, and other relevant factors, are assembled by the District Engineer and incorporated in a "Preliminary Information Report". The Preliminary Information Report will be submitted to the Division Engineer for review and approval. Normally, the agency having jurisdiction over the particular project is expected to furnish information on project features, the basis for storage allocations and any other available data pertinent to the studies. The Corps of Engineers supplements this information as required.

c. Studies required to develop reservoir regulation schedules and plans usually will be conducted by Corps of Engineers personnel at District level, except where the project regulation affects flows in more than one district, in which case the studies will be conducted by or under supervision of Division personnel. Assistance as may be available from the project operating agency or others concerned will be solicited.

d. When necessary agreements are reached at district level, and regulations developed in accordance with 33 CFR 208.11 and EM 1110-2-3600, they will be submitted to the Division Commander for review and approval, with information copies for DAEN-CWE-HW. Usually the regulations include diagrams of operating parameters.

e. For projects owned by the Bureau of Reclamation, the respective Regional Directors are designated as duly authorized representatives of the Commissioner of Reclamation. By letter of 20 October 1976, the Commissioner delegated responsibilities to the Regional Directors as follows: "Regarding the designated authorization of representatives of the Commissioner of Reclamation in matters relating to the development and processing of Section 7 flood control regulations, we are designating each Regional Director as our duly authorized representative to sign all letters of understanding, water control agreements, water control diagrams, water control release schedules and other documents which may become part of the prescribed regulations.

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The Regional Director also will be responsible for obtaining the signature of the designated operating agency on these documents where such is required. Regarding internal coordination within the Bureau of Reclamation, the Regional Directors will obtain the review and approval of this office and at appropriate offices with our Engineering and Research Center, Denver, Colorado, prior to signing water control documents.”

f. In accordance with the delegation cited in paragraph e, 33 CFR 208.11 regulations pertaining to Bureau of Reclamation projects will be processed as follows:

(1) After regulation documents submitted by District Commanders are reviewed and approved by the Division Commander they are transmitted to the respective Regional Director of the Bureau of Reclamation for concurrence of comment, with a request that tracings of regulation diagrams be signed and returned to the Division Commander.

(2) If any questions arise at this stage appropriate actions are taken to resolve differences. Otherwise, the duplicate tracings of the regulation diagram are signed by the Division Commander and transmitted to the office of the project owner for filing.

(3) After full agreement has been reached in steps (1) and (2), the text of proposed regulations is prepared in final form. Copies of any diagrams involved are included for information only.

(4) A letter announcing completion of action on processing the regulations, with pertinent project data as specified in paragraph 208.11(d)(11) of 33 CFR 208.11, and one copy of the signed tracings of diagrams are forwarded to HQDA (DAEN-CWE-HW) WASH DC 20314 for promulgation and filing. The office

of the Chief of Engineers will forward the pertinent project data to the Liaison Officer with the Federal Register, requesting publication in the FEDERAL REGISTER.

g. Regulations developed in accordance with 33 CFR 208.11 and applicable to projects that are not under supervision of the Bureau of Reclamation are processed in substantially the manner described above. All coordination required between the Corps of Engineers and the operating agency will be accomplished at field level.

h. Upon completion of actions listed above, Division Commanders are responsible for informing the operating agencies at field level that regulations have been promulgated.

2. *Signature blocks:* Some 33 CFR 208.11 regulations contain diagrams of parameter curves that cannot be published in the FEDERAL REGISTER, but are made a part thereof by appropriate reference. Each diagram bears a title block with spaces for the signature of authenticating officials of the Corps of Engineers and the owner/operating agency of the project involved.

3. *Designation of Corps of Engineers Representatives.* Division Commanders are designated representatives of the Chief of Engineers in matters relating to development and processing of 33 CFR 208.11 regulations for eventual promulgation through publication of selected data specified in paragraph (d)(11) §208.11. Division Commanders are designated as the Corps of Engineers signee on all letters of understanding, water control agreements and other documents which may become part of prescribed regulations for projects located in their respective geographic areas, and which are subject to the provisions of 33 CFR 208.11.

APPENDIX D TO § 222.5—SAMPLE TABULATION

Bardwell Lake, Monthly Lake Report, May 1975

Day	Elevations 0800: 2,400 feet-MSL	Storage 2400 A-F	Evap DSF	Pump DSF	Release DSF	Inflow adj. DSF	Rain, inch
1	421.30 421.31	55979	28	2.0	0	84	0.00
2	421.32 421.37	56196	5	2.0	0	117	.00
3	421.43 421.44	56449	23	1.9	0	152	.14
4	421.45 421.47	56558	1	1.8	0	58	.00
5	421.49 421.34	56088	1	2.0	324	50	.00
6	421.20 421.01	54902	14	1.9	632	50	.00
7	420.88 420.89	54473	4	2.0	269	59	.09
8	420.89 420.91	54544	5	2.3	0	44	.00
9	420.90 420.89	54473	11	1.5	0	38	.00
10	420.90 420.90	54509	28	3.0	0	27	.00
11	420.91 421.35	56124	26	1.8	0	824	.00
12	421.54 421.65	57213	31	2.1	0	582	1.61
13	421.70 421.75	57578	29	2.2	0	216	.00
14	421.78 421.76	57614	34	1.9	249	303	.03
15	421.69 421.52	56739	22	1.9	643	225	.57
16	421.39 421.28	55871	39	2.1	535	138	.00
17	421.19 421.09	55188	10	2.2	393	119	.00
18	421.03 421.05	55045	46	2.0	143	60	.00
19	421.04 421.07	55116	17	2.3	0	55	.00
20	421.06 421.30	55943	21	2.1	0	440	.21
21	421.39 421.47	56558	20	2.1	0	332	.97
22	421.50 421.39	56268	42	2.1	247	145	.00
23	421.37 424.91	69726	31	2.0	328	7146	.22

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APPENDIX D TO § 222.5—SAMPLE TABULATION—Continued

Bardwell Lake, Monthly Lake Report, May 1975

Day	Elevations 0800: 2,400 feet-MSL		Storage 2400 A-F	Evap DSF	Pump DSF	Release DSF	Inflow adj. DSF	Rain, inch
24	425.61	426.15	74825	22	2.0	0	2595	2.38
25	426.15	426.55	76523	18	2.3	0	876	.11
26	426.72	426.80	77598	42	2.1	0	586	.00
27	426.95	427.00	78465	23	2.0	0	462	.00
28	427.14	427.15	79116	31	2.1	0	361	.19
29	427.31	427.70	81528	61	1.9	0	1279	.20
30	427.94	428.05	83082	11	2.0	0	796	1.02
31	428.20	428.22	83837	7	2.1	0	389	.00
Monthly total:								
(DSF)				700	64	3763	18626	7.74
(A-F)			27966	1389	126	7464	36945

APPENDIX E TO § 222.5—LIST OF PROJECTS

Project name ¹	State/county	Stream ¹	Project purpose ²	Storage 1,000 AF	Elev limits feet M.S.L.		Area in acres		Auth legis ³
					Upper	Lower	Upper	Lower	
Lower Mississippi Valley Division									
Alligator-Catfish FG	MS Issaquena	Little Sunflower	F	0.0	0.0	0.0	0	0	FCA Jun 36.
Arkabulla Lk	MS Desoto	Cadwater	F	525.0	238.3	209.3	33,400	5,100	FCA Jun 36.
Ascalmore	MS Tallahatchie	Ascalmore	F	0.0	136.0	118.0	0	0	FCA Jun 36.
Bienvenue FG	LA St Bernard	Bayou Bienvenue	F	0.0	2.0	2.0	0	0	PL 238-89
Big Lk Ditch #81 CS	AR Mississippi	Ditch 81 Extension	C	0.0	0.0	230.0	0	0	FCA Oct 65.
Big Lk Div CS	AR Mississippi	Little R	C	0.0	0.0	230.0	0	0	FCA Oct 65.
Big Lk North End CS	AR Mississippi	Little R	C	0.0	0.0	230.0	0	0	FCA Oct 65.
Big Lk South end CS	AR Mississippi	Ditch 28	C	0.0	0.0	230.0	0	0	FCA Oct 65.
Birds Point-New Madrid Div Floodway	MO New Madrid	Mississippi	F	0.0	330.5	328.5	131,000	71,000	FCA May 28.
Bodcau Lk	LA Bossier	Bayou Bodcau	F	85.3	199.5	157.0	21,000	110	PL 74-839.
Bonnet Carre Div Spillway	LA St Charles	Mississippi R	F	0.0	24.0	20.0	0	0	FCA May 28.
Bowman Lock	LA Vermilion	GIWW	I	0.0	1.2	1.2	0	0	PL 79-14.
Caddo Lk	LA Caddo	Cypress Bayou	N	128.6	182.7	168.5	59,000	26,800	FCA Oct 65.
Cairo 10th & 20th St PS	IL Pulaski	Ohio	I	0.0	310.5	299.0	0	0	PL 90-483.
Calcasieu SW Barrier & Lock	LA Calcasieu	Calcasieu R	I	0.0	1.2	1.2	0	0	RHA Oct 62.
Callon L&D	AR Union	Ouachita	N	0.0	77.0	77.0	12,200	12,200	PL 79-525.
Catumont FG East & West	LA St Mary	Wax Lake Outlet	FN	0.0	3.0	3.0	0	0	RHA 1950.
Cannon Re-reg	MO Ralls	Salt R	PCA	5.8	528.0	521.0	1,020	460	HD 507.
Caryle Lk	IL Clinton	Kaskaskia R	F	699.0	462.5	445.0	50,440	24,580	SD 44.
Catahoula Lk CS	LA LaSalle	Catahoula Div	CR	233.0	445.0	429.5	0	7,100	RHA 1960.
Catfish Point CS	LA Cameron	Mernmentau R	FN	118.0	34.0	27.0	25,000	94	RHA 1960.
Charontion FG	LA St Mary	Grand Lk	FN	0.0	1.2	1.2	0	0	FCA Aug 41, RHA Jul 64.
Cocodrie FG FG	LA Concordia	Bayou Cocodrie	F	0.0	0.0	0.0	0	0	RHA Jul 46, FCA May 28.
Collins Cr	MS Warren	Collins Cr	F	0.0	46.0	13.0	0	0	FCA Aug 41.
Columbia L&D	LA Caldwell	Ouachita	N	0.0	84.0	67.0	0	0	FCA 1941.
Connerly CS	AR Chicot	Connerly Bayou	FCR	0.0	52.0	52.0	7,070	7,070	RHA 1950.
Courtableau Drainage CS	LA St Landry	Bayou Courtableau	F	0.0	116.0	106.0	0	0	FCA Aug 68.
Darbonne CS	LA St Landry	Bayou Darbonne	FI	0.0	18.0	16.0	0	0	FCA May 28, PL 391-70.
DeGray Lk	AR Desoto	Caddo	FN	881.9	423.0	345.0	23,800	6,400	FCA May 28, PL 391-70.
DeGray Rereg. St	AR Clark	Caddo	NMRA	3.6	221.0	209.0	430	90	RHA 1950, WSA 1958.
Ditch Bayou Dam	AR Chicot	Ditch Bayou	FCR	0.0	106.0	93.0	0	0	FCA Aug 68.
Drainage Dist #17 PS	AR Mississippi	Ditch 71	F	3.0	236.0	228.0	4,100	0	FCA Aug 68, PL 90-483.
Drinkwater PS	MO Mississippi	Drinkwater Sewer	F	20.6	315.0	307.0	4,000	700	FCA May 50, PL 516.
Dupre FG	LA St Bernard	Bayou Dupre	F	0.0	2.0	2.0	0	0	PL 238-89.
East St Louis PS	IL St. Clair	IDD	F	0.0	0.0	0.0	0	0	FC Act 36.
Empire FG Hurr Prot & Lock	LA Plaquemines	Mississippi R	F	0.0	5.0	5.0	0	0	PL 874-87.
End Lk	MS Yalobusha	Yacona	F	660.0	268.0	230.0	28,000	6,100	FCA Jun 36.
Felsenthal L&D	AR Union	Ouachita	N	32.5	70.0	65.0	46,500	17,500	RHA 1950.

APPENDIX E TO § 222.5—LIST OF PROJECTS—Continued

Project name ¹	State/county	Stream ¹	Project purpose ²	Storage 1,000 AF	Elev limits feet M.S.L.		Area in acres		Auth legis ³
					Upper	Lower	Upper	Lower	
Finley Street PS	TN Dyer	Forked Deer	F	0.5	269.0	257.0	94	22	FCA 1948, PL 85-500, PL 86-645.
Freshwater Lock	LA Vermillion	Freshwater Bayou	I	0.0	0.0	0.0	0	0	
Graham Burke PS	AR Phillips	White	NI	2,805.0	174.8	140.0	149,000	2,500	FCA May 28, PL 85-500.
Grenada Lk	MS Grenada	Yalobusha Skuna	F	1,357.4	231.0	193.0	64,600	9,800	FCA Jun 36.
Huxtable PS	AR Lee	St Francis	F	2,863.0	207.2	166.0	18,500	1,400	FCA May 50.
Jonesville L&D	LA Catahoula	Black	N	0.0	34.0	34.0	7,120	7,120	RHA 1950.
Kaskaskia L&D	IL Randolph	Kaskaskia R	N	1.1	368.0	363.0	1,300	1,200	SD 44.
L&D 1	LA Catahoula	Red R	N	0.0	40.0	40.0	0	0	PL 90-483.
L&D 2	LA Rapides	Red R	N	0.0	71.2	64.0	0	0	PL 90-483.
L&D 3	LA Rapides	Red R	N	0.0	95.0	91.5	0	0	PL 90-483.
L&D 4	LA Natchitoches	Red R	N	0.0	120.0	119.6	0	0	PL 90-483.
L&D 5	LA Red R	Red R	N	0.0	145.0	140.2	0	0	PL 90-483.
L&D 24	MO Pike	Mississippi R	N	29.7	449.0	445.0	13,000	12,000	R&H Act, Jul 3/30.
L&D 25	MO Lincoln	Mississippi R	N	49.7	434.0	429.7	18,000	16,600	R&H Act, Aug 30/35.
L&D 26	IL Madison	Mississippi R	N	107.1	419.0	414.0	30,000	27,700	R&H Act, Jul 3/30.
Larose to Golden Meadow Hurr Prot FG.	LA LaFourche	Bayou LaFourche	F	0.0	3.0	3.0	0	0	R&H Act, Jul 3/30.
Little Sun flower CS	MS Issaquena	Lit. Sunflower	F	0.0	85.0	60.0	0	0	FCA 1941.
Lk #9 Culvert & PS	KY Fulton	Mississippi	F	6.5	286.0	282.0	0	0	FCA Oct 65.
Lk Chicot PS	AR Chicot	Macon Lk	FCR	0.0	118.2	90.0	0	0	FCA Aug 68.
Lk Greason	AR Pike	Little Missouri	P	0.0	563.0	436.9	0	0	FCA 1941.
Lk Ouachita	AR Garland	Ouachita	FP	407.9	563.0	504.0	9,800	2,500	
Long Branch DS	LA Catahoula	Catahoula Div	P	0.0	592.0	480.0	0	0	FCA Dec 44.
Mark Twain Lk	MO Rails	Salt R	F	894.0	32.5	32.5	0	0	FCA May 50.
Marked Tree Siphon	AR Poinsett	St. Francis	PMCAR	457.0	606.0	567.2	38,400	18,600	HD 507.
Morganza Div CS	LA Point Coupee	Morganza Floodway	F	0.0	229.0	198.3	18,600	5,900	
Muddy Bayou CS	MS Warren	Muddy Bayou	F	0.0	59.5	49.0	0	0	FCA Jun 30.
Old River Div CS Low Sill Overbank & Aux.	LA W. Feliciana	Old R	FC	30.0	76.9	70.0	4,350	2,860	FCA May 28.
Old River Lock	LA W. Feliciana	Old R	F	0.0	70.0	5.0	0	0	FCA Oct 65.
Port Allen Lock	LA Port Allen	GIWW	N	0.0	65.4	10.0	0	0	PL 83-780.
Prairie Dupont East & West PS	IL St. Clair	IDD	N	0.0	46.1	2.6	0	0	FCA Sep 54, PL 780-83.
Rapides-Boeuf Div Canal CS	LA Rapides	Bayou Rapides	F	0.0	0.0	0.0	0	0	RHA Jul 46.
Rend Lk	IL Franklin	Big Muddy R	F	0.0	66.0	62.2	0	0	FC Act 62.
Sardis Lk	MS Panola	Little Sunflower	MA	109.0	405.0	410.0	24,800	18,900	FCA Aug 41, GD 359-77.
Schooner Bayou CS & Lock	LA Vermillion	Schooner Bayou	F	160.0	405.0	391.3	5,400	5,400	HD 541.
Shelbyville Lk	IL Shelby	Kaskaskia R	I	1,569.9	281.4	236.0	58,500	10,700	FCA Jun 36.
			F	0.0	1.2	1.2	0	0	FCA Aug 41.
				474.0	626.5	599.7	25,300	11,100	HD 232.

Project Name	State	Agency	Division	1800	599.7	573.0	11,100	3,000	0	FCA May 28.
Sorell Lock	LA	Iberville	GIWW	0.0	29.7	3.5	0	0	0	FCA Oct 65.
St Francis Lk CS	AR	Poinsett	Oak	0.0	0.0	210.0	0	2,240	0	FCA 1941.
Steele Bayou CS	MS	Issaquena	Steele Bayou	0.0	68.5	60.0	0	0	0	FCA Jun 36.
Tchula Lk Lower FG	MS	Humphreys	Tchula Lk	0.0	110.0	84.0	0	0	0	FCA Jun 36.
Tchula Lk Upper FG	MS	Humphreys	Tchula Lk	0.1	108.0	92.0	0	0	0	PL 89-789, FCA May 28.
Teche-Vermilion PS & CS	LA	St Mary	Atchafalaya R	0.1	18.0	16.0	0	0	0	FCA Oct 65.
Tensas-Cocodrie PS	LA	Cocordia	Bayou Corcodrie	0.0	37.0	23.0	0	180	0	FCA Jul 46.
Treasure Island PS	MO	Dunklin	Little R	23.4	252.0	235.0	7,800	2,300	0	RHA Mar 45, PL 75-761.
Wallace Lk	LA	Caddo	Cypress Bayou	96.1	156.0	142.0	9,300	5,200	0	HD 159.
Wappapello Lk	MO	Wayne	St Francis R	613.2	394.7	354.7	23,200	4	0	FCA Jun 36.
Wasp Lk	MS	Humphreys	Wasp Lk-Bear Cr	0.0	111.6	88.5	9	4	0	FCA 1948.
West Hickman PS	KY	Fulton	Mississippi	0.0	302.0	296.0	0	0	0	FC Act 38.
Wood R PS	IL	Madison	IDD	0.0	0.0	0.0	0	0	0	FCA Jun 36.
Yazoo City PS	MS	Yazoo	Yazoo	0.0	96.0	69.0	0	0	0	
Missouri River Division										
Bear Creek Dam & Res	CO	Jefferson	Bear Cr	28.8	5,635.5	5,558.0	718	109	0	PL 90-483.
Big Bend Dam & Lk Sharpe	SD	Lyman Buffalo Hughes.	Missouri R	1.9	5,558.0	5,528.0	109	17	0	SD 87-90.
Blue Springs Dam & Lk	MO	Jackson	Little Blue R	61.0	1,423.0	1,422.0	61,000	60,000	0	PL 78-534.
Blue Stem Lake & Dam 4	NE	Lancaster	Olive Br. Salt Creek	117.0	1,422.0	1,420.0	60,000	57,000	0	SD 247-78.
Bowman-Haley Dam & Res	ND	Bowman	No Fk Grand River	15.8	820.0	802.0	982	722	0	PL 90-483.
Branched Oak Lk & Dam 18	NE	Lancaster	Oak Creek trib. Salt Creek.	10.8	802.0	760.0	722	0	0	HD 169-90.
Bull Hook Dam	MT	Hill	Bull Hook Cr Scott Coulee.	7.2	1,322.5	1,307.4	660	315	0	PL 85-500.
Cedar Canyon Dam	SD	Pennington	Deadman's Gulch	3.0	1,307.4	1,277.0	315	1	0	HD 396-84.
Chatfield Dam & Res	CO	Douglas	S Platte	72.7	2,777.0	2,754.8	5,131	1,732	0	PL 87-874.
Cherry Cr Dam & Res	CO	Arapahoe	Cherry Cr	15.5	2,754.8	2,740.0	1,732	965	0	HD 574-87.
Clinton Dam & Lk	KS	Douglas	Wakanusa R	71.6	1,311.0	1,284.0	3,640	1,780	0	PL 85-500.
Cold Brook Dam & Res	SD	Fall River	Cold Brook	26.0	1,284.0	1,250.0	1,780	0	0	HD 396-84.
Conestoga Lake & Dam 12	NE	Lancaster	Holmes Cr Trib to Salt Cr.	6.5	2,593.0	2,540.0	283	0	0	PL 78-534.
Cottonwood Springs Dam & Res	SD	Fall River	Cottonwood Springs Cr	0.1	3,545.0	3,526.0	11	2	0	PL 80-858.
Fort Peck Dam & Res	MT	Valley, Mc Cone Garfield.	Missouri R	204.7	5,500.0	5,432.0	4,742	1,412	0	PL 81-516.
				26.7	5,492.0	5,385.0	1,412	12	0	HD 689-80.
				80.0	5,598.0	5,550.0	2,637	852	0	PL 77-228.
				14.0	5,550.0	5,504.0	852	0	0	HD 426-76, PL 78-534.
				267.8	903.4	875.5	12,891	7,006	0	PL 87-874.
				129.2	875.5	820.0	7,006	0	0	SD 122-87.
				6.7	3,651.4	3,585.0	198	36	0	PL 77-228.
				0.5	3,585.0	3,548.0	36	0	0	HD 685-76.
				8.0	1,252.0	1,232.9	620	230	0	PL 85-500.
				2.6	1,232.9	1,197.0	230	1	0	HD 396-84.
				7.7	3,986.0	3,875.0	214	44	0	PL 77-228.
				0.2	3,875.0	3,868.0	44	30	0	HD 685-76.
				977.0	2,250.0	2,246.0	249,000	240,000	0	PL 73-409.

APPENDIX E TO § 222.5—LIST OF PROJECTS—Continued

Project name ¹	State/county	Stream ¹	Project pur- pose ²	Storage 1,000 AF	Elev limits feet M.S.L.		Area in acres		Auth legis ³
					Upper	Lower	Upper	Lower	
Fort Randall Dam, Lk Francis Case ...	SD Gregory Charles	Missouri R	FNPMCAR	13,649.0	2,246.0	2,160.0	240,000	92,000	PL 75-529, HD 238-73, PL 78-534, SD 247-78.
Garrison Dam, Lk Sakakawea	ND Mercer McLean	Missouri R	FNPMCAR	985.0	1,375.0	1,365.0	102,000	95,000	PL 78-534, PL 78-534.
Gavins Point Dam, Lewis & Clark Lk	SD Yankton	Missouri R	FNPMCAR	3,021.0	1,365.0	1,320.0	95,000	41,000	SD 247-78.
Glenn Cunningham Lk, Dam 11	NE Knox	Little Papillion Cr	FNPMCAR	1,494.0	1,854.0	1,850.0	382,000	365,000	PL 78-534, SD 247-78.
Harlan County Lk	NE Douglas	Republican R	FRCA	17,440.0	1,850.0	1,775.0	365,000	129,000	SD 247-78.
Harry S Truman Dam & Res	MO Benton	Osage R	FPOR	61.0	1,210.0	1,208.0	32,000	29,000	PL 78-534, SD 247-78.
Hillsdale Lk	KS Miami	Big Bull Cr	F	95.0	1,208.0	1,204.5	29,000	25,000	SD 247-78.
Holmes Park Lk & Dam 17	NE Lancaster	Antelope Cr Trib to Salt Cr.	FNMCAR	39	1,142.0	1,121.0	922	392	PL 90-483, PL 90-483.
Kanopolis Lk	KS Ellsworth	Smoky Hill R	F	498.0	1,973.5	1,946.0	23,064	13,249	PL 77-228, 0 HD 349-90.
Kelly Road Dam	CO Arapahoe	Westerly Cr	FI	342.6	1,946.0	1,875.0	13,249	0	0 HD 892-76, PL-78-534, PL 83-780.
Long Branch Lk	MO Randolph	Little East Fk Chariton R	F	4,005.9	739.6	706.0	209,300	55,600	0 HD 549-81, PL 87-874, HD 578-87.
Longview Lk	MO Jackson	Little Blue R	F	1,203.4	706.0	635.0	55,600	0	0 HD 83-780, 0 HD 642-81, PL 85-500.
Melvern Lk	KS Osage	Marais des Cygnes R	F	83.6	931.0	917.0	7,410	4,580	PL 83-780, 0 HD 642-81, PL 85-500.
Milford Lk	KS Geary	Republican R	FNMCAR	76.3	917.0	852.4	4,580	100	PL 85-500.
Oahe Dam & Lk	ND 4 Counties	Missouri R	FCA	0.8	1,242.4	1,218.0	100	3	HD 396-84, 3 HD 396-84.
Olive Cr Lk & Dam 2	NE Lancaster	Olive Br of Salt Cr	FNPMCAR	370.0	1,508.0	1,463.0	13,999	3,560	PL 75-761, 0 PL 78-534, HD 842-76.
Papio Dam Site #18 & Lk	NE Douglas	Boxelder Cr Papio Cr	F	55.8	1,463.0	1,425.0	3,560	0	0 PL 80-858, PL 84-99.
Papio Dam Site #20 & Lk	NE Sarpy	Trib South Branch Papio	F	30.4	801.0	791.1	3,670	2,429	PL 89-298, 0 HD 238-89.
Pawnee Lk & Dam 14	NE Lancaster	No. Middle Cr of Salt Cr	F	34.6	791.0	751.1	2,429	930	PL 90-483, 0 HD 169-90.
Perry Lk	KS Jefferson	Delaware R	F	24.8	909.0	891.0	1,960	0	0 HD 83-780, 6,928 PL 83-780, HD 549-81.
Pipestem Dam & Res	ND Stutsman	Pipestem Cr	F	22.1	891.0	810.0	930	0	0 HD 642-81, PL 75-761.
				208.4	1,057.0	1,036.0	13,948	6,928	PL 75-761, HD 549-81.
				154.4	1,036.0	960.0	6,928	0	0 PL 83-780, 0 HD 642-81, PL 75-761.
				756.7	1,176.2	1,144.4	27,255	17,270	PL 83-780, 0 HD 642-81, PL 75-761.
				388.8	1,144.4	1,080.0	15,709	0	0 HD 642-81, PL 75-761.
				1,097.0	1,620.0	1,617.0	373,000	359,000	PL 78-534, SD 247-78.
				16,789.0	1,617.0	1,540.0	359,000	117,000	SD 247-78, 174 HD 396-84.
				4.0	1,350.0	1,335.0	355	174	HD 396-84, 4 PL 85-500.
				1.5	1,335.0	1,314.0	174	4	PL 90-483, 255 PL 90-483.
				7.1	1,128.2	1,110.0	595	255	0 HD 349-90, 246 PL 90-483.
				3.4	1,110.0	1,060.5	255	0	0 HD 349-90, 246 PL 90-483.
				6.1	1,113.1	1,096.0	493	246	PL 90-483, 10 HD 349-90.
				2.7	1,096.0	1,069.0	246	10	HD 349-90, 728 PL 85-500.
				21.0	1,263.5	1,244.3	1,470	728	PL 85-500, 1 HD 396-84.
				8.5	1,244.3	1,206.0	728	1	HD 396-84, 122 PL 83-780.
				521.9	920.6	891.5	25,342	12,202	PL 83-780, 0 HD 642-81, 122 HD 642-81.
				243.2	891.5	825.0	122	0	0 HD 642-81, 885 PL 89-298.
				137.0	1,496.3	1,442.4	4,754	885	PL 89-298.

Pomme De Terre Lk	MO Polk	Pomme De Terre R	FRC	9.6	1,442.4	1,415.0	885	62	HD 266-89.
			F	407.2	874.0	839.0	15,980	7,890	PL 75-761.
			FNPCAR	241.6	899.0	750.0	7,890	0	HD 549-81, PL 83-780.
Pomona Lk	KS Osage	110 Mile Cr	F	176.8	1,003.0	974.0	8,520	400	PL 83-780.
			F	70.6	974.0	912.0	4,000	0	HD 549-81.
Rathbun Lk	IA Appanoose	Chariton R	F	346.3	926.0	904.0	20,948	11,013	PL 83-780.
			F	205.4	904.0	844.0	11,013	0	HD 561-81.
Smithville Lk	MO Clay	Little Platte R	F	101.8	876.2	864.2	9,995	7,192	PL 89-298.
			FMCAR	144.6	864.2	799.0	7,192	0	HD 262-89.
			F	1.8	5,600.0	5,535.0	88	0	PL 81-516, HD 669-80.
Spring Gulch Imbankment	CO Douglas	Spring Gulch	F	4.7	1,285.0	1,271.1	490	196	PL 85-500.
Stagecoach Lk & Dam 9	NE Lancaster	Hickman Br of Salt Cr	FRC	1.9	1,271.1	1,246.0	196	0	HD 396-84.
			F	3.7	1,121.0	1,104.0	302	137	PL 90-483.
Standing Bear Lk & Dam 16	NE Douglas	Trib Big Papillion Cr	FRC	1.5	1,104.0	1,060.0	137	0	HD 349-90.
			F	779.6	892.0	867.0	88,288	24,777	PL 83-780.
Stockton Lk	MO Cedar	Sac R	F	887.1	867.0	760.0	24,777	0	HD 549-89.
			FARPN	1,937.4	1,136.0	1,075.0	54,179	14,875	PL 75-761.
Tuttle Creek Lk	KS Riley	Big Blue R	F	177.1	1,075.0	1,061.0	14,875	0	HD 842-76.
			F	5.3	1,355.0	1,341.0	505	255	PL 85-500.
Twin Lakes & Dam 13	NE Seward	Middle Cr Salt Cr	F	2.8	1,341.0	1,306.0	255	1	HD 396-84.
			F	6.8	1,302.0	1,287.8	660	303	PL 85-500.
Wagon Train Lk & Dam 8	NE Lancaster	Hickman Br of Salt Cr	F	2.5	1,287.8	1,260.0	303	4	HD 396-84.
			F	6.1	1,113.1	1,096.0	493	246	PL 90-483.
Wehrspann Lk & Dam 20	NE Sarpy	Trib South Branch Papio	F	2.7	1,096.0	1,069.0	246	10	HD 349-90.
			F	530.7	1,554.0	1,516.0	19,980	9,040	PL 78-534.
Wilson Lk	KS Russell	Saline R	FRC	247.8	1,516.0	1,440.0	9,040	0	SD 191-78, SD 247-78.
			F	5.6	1,262.0	1,244.9	475	208	PL 85-500.
Yankee Hill Lk & Dam 10	NE Lancaster	Cardwell Br of Salt Cr	FRC	2.0	1,244.9	1,218.0	208	0	HD 396-84.
			F	14.6	1,300.0	1,255.0	489	124	PL 74-738.
			F	73.4	937.0	840.0	1,430	160	FCA Sep 54.
Almond Lake	NY Steuben	Canacadea Cr	F	8.0	1,304.0	1,218.0	192	0	PL 74-738.
Alvin R. Bush Dam	PA Clinton	Kettle Cr	F	1.7	1,150.0	1,108.0	87	7	PL 87-874.
Arkport Dam	NY Steuben	Canisteo R	F	27.0	651.0	628.0	1,411	947	PL 87-874.
Aylesworth Cr Lk	PA Lackawanna	Aylesworth Cr	F	39.8	628.0	537.0	947	113	PL 87-874.
Beltzville Dam & Lk	PA Carbon, Monroe	Pohopoco Cr	FMA	36.2	1,500.0	1,466.0	1,184	952	PL 87-874.
			F	92.0	1,466.0	1,255.0	952	42	PL 87-874.
Bloomington Lk	MD Garret	North Branch Potomac R	FMA	27.1	307.0	290.0	2,159	1,147	PL 87-874.
			F	19.9	290.0	261.0	1,147	323	PL 87-874.
Blue Marsh Dam & Lk	PA Lebanon Berks	Tulpehocken CR	FMA	82.0	1,117.0	1,045.0	2,060	410	PL 85-500.
			F	114.7	1,228.0	1,162.0	3,020	790	FCA Sep 54.
Cowanque Lk	PA Tioga	Cowanque R	F	30.2	1,203.0	1,150.0	1,100	210	PL 74-738.
Curwensville Lk	PA Clearfield	West Branch Susquehanna R.	F	70.2	657.0	630.0	3,450	1,730	FCA Sept 54.
			F	107.8	1,450.0	1,300.0	1,850	80	PL 79-526.
East Sidney Lk	NY Delaware	Outleut Cr	F	79.9	1,610.0	1,582.0	3,160	2,530	PL 79-526.
Foster Joseph Sayers Dam	PA Centre	Bald Eagle Cr	F	60.7	1,582.0	1,554.0	2,530	1,780	PL 79-526.
Francis E. Walter Dam & Res	PA Carbon, Luzerne, Monroe.	Lehigh R	F						
Gathright Dam & Lk Moomaw	VA Alleghany, Bath	Jackson R	F						
			AR						

North Atlantic Division

APPENDIX E TO § 222.5—LIST OF PROJECTS—Continued

Project name ¹	State/county	Stream ¹	Project purpose ²	Storage 1,000 AF	Elev limits feet M.S.L.		Area in acres		Auth legis ³
					Upper	Lower	Upper	Lower	
General Edgar-Jadwin Dam	PA Wayne	Dyberry Cr	F	24.5	1,053.0	973.0	659	0	PL 80-858.
Prompton Dam & Res	PA Wayne	W Br Lackawaxen R	F	48.5	1,205.0	1,125.0	910	290	PL 80-858.
Raystown Lk	PA Huntingdon	Raystown Br	F	248.0	812.0	786.0	10,800	8,300	PL 87-874.
			FR	514.0	786.0	622.8	8,300	150	
Stillwater Lk	PA Susquehanna	Lackawanna R	F	11.6	1,621.0	1,572.0	422	83	PL 77-228.
Tioga-Hammond Lakes Hammond	PA Tioga	Crooked Cr	F	54.2	1,131.0	1,086.0	1,770	680	PL 85-500.
Tioga-Hammond Lakes Tioga	PA Tioga	Tioga R	F	52.5	1,131.0	1,081.0	1,630	470	PL 85-500.
Whitney Piont Lk	NY Broome	Otselic R	F	66.5	1,010.0	973.0	3,340	1,200	PL 74-738.
York Indian Rock Dam	PA York	Codorus Cr	F	28.0	435.0	370.0	1,430	0	PL 74-738.
North Central Division									
Badhill Dam & Res	ND Barnes	Shenoyne R	FM	68.6	1,266.0	1,257.2	5,430	4,430	FCA Dec 44.
Brandon Road L&D	IL Will	Illinois R	N	8.0	539.0	538.0	300	250	PL 71-126.
Cedars L&D	WI Outagamie	Fox R	N	1.8	703.6	698.7	255	140	RHA of 1882, 1885.
Coralville Dam & Res	IA Johnson	Iowa R	F	439.0	712.0	680.0	24,800	3,580	PL 75-761.
			C	40.3	680.0	652.0	3,580	0	PL 75-761.
Depree L&D	WI Brown	Fox R	N	9.4	591.0	586.7	926	0	PL 71-126.
Dresden Island L&D	IL Grundy	Illinois R	N	1.0	505.0	504.0	1,690	1,550	FCA 1958.
Eau Galle Dam & Res	WI Pierce	Eau Galle R	FCR	1.6	940.0	938.5	1,500	1,350	PL 78-534.
Farmdale Dam	IL Tazewell	Farm Cr	F	11.3	616.0	551.0	385	0	PL 78-534.
Fondulac Dam	IL Tazewell	Fondulac Cr	F	2.3	579.0	530.0	97	0	PL 78-534.
Gull Lk Dam & Res	MIN Cass	Gull R	N	70.4	1,194.0	1,192.7	13,100	12,700	RHA 1899.
Highway 75 Dam & Res	MIN Bigstone, Lacqui, Parle	Minnesota R	FC	11.1	952.3	947.3	2,790	910	FCA Oct 65.
Homme Dam & Res	ND Walsh	Park R	FM	3.7	1,080.0	1,074.0	190	176	FCA of 22 Dec 44.
L&D 1	MIN Hennepin, Ramsey	Mississippi R	N	13.0	725.1	722.8	5,800	5,500	RHA 1910.
L&D 2	MIN Dakota, Wash	Mississippi R	N	8.0	687.2	686.5	11,810	11,000	RHA 1927.
L&D 3	MIN Goodhue, Pierce	Mississippi R	N	17.8	675.0	674.0	17,950	17,650	RHA 1930.
L&D 4	WI Wabasha, Buffalo	Mississippi R	N	18.0	667.0	666.5	38,820	36,600	RHA 1930.
L&D 5	MIN Winona, Buffalo	Mississippi R	N	6.2	660.0	659.5	12,680	12,000	RHA 1930.
L&D 5A	MIN Winona, Buffalo	Mississippi R	N	7.2	651.0	650.0	7,500	7,000	RHA 1930.
L&D 6	MIN Winona	Mississippi R	N	8.4	645.5	644.5	8,870	8,000	RHA 1930.
L&D 7	MIN Winona	Mississippi R	N	2.6	639.0	639.0	13,440	13,400	RHA 1930.
L&D 8	WI LaCrosse	Mississippi R	N	20.4	631.0	630.0	20,800	20,000	RHA 1930.
L&D 9	WI Vernon	Mississippi R	N	28.7	620.0	619.0	29,125	28,300	RHA 1930.
L&D 10	IA Allamakee	Mississippi R	N	16.8	611.0	610.0	17,070	16,500	RHA 1930.
L&D 11	WI Grant	Mississippi R	N	19.1	603.1	602.0	21,100	20,000	PL 71-520.
L&D 12	IA Dubuque	Mississippi R	N	12.2	592.1	591.0	13,000	12,400	PL 71-520.
L&D 13	IA Jackson	Mississippi R	N	24.2	583.1	582.0	30,000	28,500	PL 71-520.

Project Name	State	Agency	Contract No.	Estimate No.	Contract Value	Estimate Value	Contract Type	Contract Period
L&D 14	IA	Scott	9.0	572.1	571.0	10,500	N	9,980 PL 71-520.
L&D 15	IL	Rock Island	5.5	561.1	559.0	3,725	N	3,540 PL 71-520.
L&D 16	IL	Rock Island	12.1	545.1	544.0	13,000	N	12,400 PL 71-520.
L&D 17	IL	Rock Island	7.5	537.1	536.0	7,560	N	7,200 PL 71-520.
L&D 18	IL	Henderson	11.0	529.1	528.0	13,300	N	12,600 PL 71-520.
L&D 19	IA	Lake	55.0	518.2	517.2	33,500	N	31,800 PL 71-520.
L&D 20	MO	Lewis	5.8	481.5	476.5	7,960	N	7,550 PL 71-520.
L&D 21	IL	Adams	8.6	470.1	469.6	9,390	N	8,910 PL 71-520.
L&D 22	MO	Polke	8.4	459.6	459.1	8,660	N	8,230 PL 71-520.
Lac qui Parle Dam & Res	MIN	Chippewa Swift	119.3	941.1	931.2	13,500	FC	6,400 FCA of 22 Jun 36.
Lagrange L&D	IL	Brown	0.0	429.0	429.0	10,500	N	10,500 PL 73-184.
Leech Lake Dam & Res	MIN	Cass	300.2	1,295.7	1,293.2	139,000	N	107,200 RHA of 1882 1895.
Little Kaukauna L&D	WI	Brown	3.6	601.0	592.8	447	N	42.0 RHA of 1882 1885.
Little Chute L&D	WI	Outagamie	0.4	694.2	688.9	74	N	67 RHA of 1882 1885.
Lockport Lock	IL	Will	2.7	579.0	577.5	1,850	FNP	1,800 RHA 1930.
Lower Appleton L&D	WI	Outagamie	0.2	710.9	706.3	43	N	40 RHA of 1882 1895.
Marselles Lk & Dam	IL	LaSalle	0.7	483.0	482.8	1,400	N	1,320 PL 71-126.
Marsh Lake Dam & Res	MIN	Swift, Lacqui, Parle	23.9	941.1	937.6	8,650	FC	5,150 FCA Jun 36.
Menasha Dam Lk Winnebago	WI	Winnebago	452.0	746.8	743.5	181,120	FN	168,500
Mount Morris Dam	NY	Livingston	337.4	760.0	585.0	3,300	F	0 PL 74-738.
O'Brien L&D	IL	Cook	0.3	581.9	578.2	50	N	50 RHA of 1946.
Peoria L&D	IL	Peoria	0.0	440.0	440.0	27,800	N	27,800 PL 73-184.
Pine Dam & Res	MIN	Crow Wing	40.4	1,230.3	1,227.3	13,900	N	13,000 RHA of 1899.
Pokegama Dam & Res	MIN	Itasca	52.4	1,274.4	1,270.3	13,700	N	12,000 RHA of 1899.
Rapid Croche L&D	WI	Outagamie	3.4	608.5	602.1	568	N	0 RHA 1885.
Red Lake Dam & Res	MIN	Clearwater	1,810.0	1,174.0	1,173.5	288,800	FA	287,300 FCA Dec 44.
Red Rock Dam & Res	IA	Marion	1,670.0	780.0	728.0	65,400	F	8,000 PL 75-761.
Reservation Control Res	SD	Traverse	56.8	981.0	976.0	12,400	FC	10,950 FCA 1936.
Sandy Lake Dam & Res	SD	Roberts.	37.5	1,218.3	1,214.3	10,600	N	8,200 RHA of 1899.
Saylorsville Dam & Res	IA	Polk	586.0	890.0	836.0	16,700	F	5,950 FCA 1936.
St Anthony Falls Lwr L&D	MIN	Hennepin	0.0	836.0	810.0	5,950	P	0 FCA.
St Anthony Falls Up L&D	MIN	Hennepin	17.4	750.0	750.0	50	N	50 RHA of 1937 1945.
Starved Rock L&D	IL	LaSalle	1.0	459.0	458.0	8,800	N	8,600 RHA of 1937 1945.
Upper Appleton L&D	WI	Outagamie	7.4	738.7	735.4	1,155	N	1,020 PL 69-100.
Upper Kaukauna L&D	WI	Outagamie	1.1	656.8	652.8	134	N	1,040 RHA of 1882 1885.
White Rock Dam & Res	MIN	Traverse	78.6	981.0	972.0	10,500	FC	115 RHA of 1882 1885.
Winnibigoshish Dam & Res	MIN	Cass Itasca	98.7	1,300.9	1,296.9	98,700	N	4,000 FCA 1936.
Winnibigoshish Dam & Res	MIN	Cass Itasca	98.7	1,300.9	1,296.9	98,700	N	62,000 RHA of 1899.

New England Division

Project Name	State	Agency	Contract No.	Estimate No.	Contract Value	Estimate Value	Contract Type	Contract Period
Ball Mountain Lk	VT	Windham	52.4	1,017.0	830.5	810	F	20 PL 78-534, 83-780.
Barre Falls Dam	MA	Worcester	24.0	807.0	761.0	1,400	F	0 PL 78-228.
Birch Hill Dam	MA	Worcester	49.9	852.0	815.0	3,200	F	0 PL 75-761.
Black Rock Lk	CT	Litchfield	8.5	520.0	437.0	190	F	21 PL 86-45.
Blackwater Dam	NH	Merrimack	46.0	566.0	515.0	3,280	F	0 PL 75-111.
Buffumville Lk	MA	Worcester	11.3	524.0	492.5	530	F	200 PL 77-228.

APPENDIX E TO § 222.5—LIST OF PROJECTS—Continued

Project name ¹	State/county	Stream ¹	Project purpose ²	Storage 1,000 AF	Elev limits feet M.S.L.		Area in acres		Auth legis ³
					Upper	Lower	Upper	Lower	
Colebrook River Lk	CT Litchfield	West Branch	F	50.2	761.0	708.0	1,185	750	PL 86-645.
Conant Brook Dam	MA Berkshire	Farmington R.	F	3.7	757.0	694.0	158	0	PL 86-645.
East Brimfield Lk	MA Hampden	Conant Brook	F	29.9	653.0	632.0	2,300	360	PL 77-228.
Edward MacDowell Lk	MA Hampden, Worcester	Quinebaug R	F	12.8	946.0	911.0	840	165	PL 75-111.
Everett Lk	NH Hillsboro	Nubanusit Brook	F	91.5	418.0	340.0	2,900	130	PL 75-761.
Franklin Falls Dam	NH Hillsboro, Merrimack	Piscataquog R	F	150.6	389.0	307.0	2,800	440	PL 75-111.
Hancock Brook Lk	NH Belknap, Merrimack	Pemigewasset R	F	3.9	484.0	460.0	266	40	PL 86-645.
Hodges Village Dam	CT Litchfield	Hancock Brook	F	13.3	501.0	465.5	740	0	PL 77-228.
Hop Brook Lk	MA Worcester	French R	F	6.9	364.0	310.0	270	21	PL 86-645.
Hopkinton Lk	CT New Haven	Hop Brook	F	70.1	416.0	380.0	3,700	220	PL 75-761.
Knightville Dam	NH Merrimack	Contoocook R	F	49.0	610.0	480.0	960	0	PL 75-761.
Littleville Lk	MA Hampshire	Westfield R	F	23.0	576.0	518.0	510	275	PL 85-500.
Mansfield Hollow Lk	MA Hampshire, Hampshires	Middle Br, Westfield R	F	49.2	257.0	205.5	1,880	200	PL 77-228.
New Bedford-Fairhaven Hurr Barrier	MA Bristol	Natchaug R	F	0.0	0.0	0.0	0	0	PL 85-500.
North Hartland Lk	VT Windsor	Otauquechee R	F	68.8	546.5	425.0	1,100	215	PL 75-761.
North Springfield Lk	VT Windsor	Black R	F	50.0	545.5	467.0	1,200	100	PL 75-761.
Northfield Br Lk	CT Litchfield	Northfield Br	F	2.4	576.0	500.0	67	7	PL 86-645.
Otter Br Lk	NH Cheshire	Otter Brook	F	17.6	781.0	701.0	374	70	PL 83-780.
Stamford Hurr Barrier	CT Fairfield	F	0.0	0.0	0.0	0	0	PL 86-645.
Surry Mountain Lk	NH Cheshire	Ashuelot R	F	31.7	550.0	500.0	970	260	PL 75-761.
Thomaston Dam	CT Litchfield	Naugatuck R	F	42.0	494.0	380.0	960	0	PL 78-534.
Townshend Lk	VT Windham	West R	F	32.9	553.0	478.0	735	95	PL 78-534, PL 83-780.
Tully Lk	MA Worcester	East Br Tully R	F	20.5	688.0	638.0	1,130	78	PL 75-761.
Union Village Dam	VT Orange	Ompompanoosuc R	F	38.0	564.0	420.0	740	0	PL 74-738.
West Hill Dam	MA Worcester	West R	F	12.4	264.0	234.0	1,025	0	PL 78-534.
West Thompsen	CT Windham	Quinebaug R	F	25.6	342.5	305.0	1,250	200	PL 86-645.
Westville Lake	MA Worcester	Quinebaug R	F	11.0	572.0	525.0	913	23	PL 77-228.

North Pacific Division									
Project name ¹	State/county	Stream ¹	Project purpose ²	Storage 1,000 AF	Upper	Lower	Upper	Lower	Auth legis ³
Albani Falls Dam, Lk Pend, Orelle	ID Bonner	Pend Orelle R	FNP	1,155.0	2,062.5	2,049.7	95,000	86,000	PL 81-516.
Applegate Lk	OR Jackson	Applegate R	FIR	75.2	1,987.0	1,854.0	988	221	FCA 1962, PL 87-874, PL 87-874.
Big Cliff Dam	OR Marion, Linn	N Santiam R	P	3.5	1,206.0	1,182.0	130	98	HD 544, PL 75-761, PL 87-874.
Blue River Lk	OR Lane	Blue R	F	6.5	1,357.0	1,350.0	975	940	HD 531.
Bonnsville L&D Lk	WA Skamania	Columbia R	FNI	78.8	1,350.0	1,180.0	940	133	PL 81-516.
Chena River Lakes	AK North Star Borough	Chena R	NP	136.0	77.0	70.0	20,800	19,850	RHA 1936.
Chief Joseph Dam Rufus Woods Lk	WA Douglas, Okanogan	Columbia R	F	34.0	506.7	490.0	5,400	400	PL 90-483.
Cottage Grove Lk	OR Lane	Coast Fk, Willamete R	P	192.3	956.0	930.0	8,400	6,800	HD 693, PL 79-525.
			F	29.8	791.0	750.0	1,155	295	HD 544, PL 75-761.

Cougar Lk	OR Lane	South Fk	F	11.3	1,699.0	1,690.0	1,690.0	1,280	1,235	HD 531.
			FNPI	143.9	1,690.0	1,532.0	1,516.0	1,235	635	PL 81-516
Detroit Lk	OR Marion	North Santiam	P	9.9	1,532.0	1,563.0	1,450.0	635	602	PL 83-870.
			FNPI	281.6	1,563.5	1,450.0	1,425.0	3,490	3,485	HD 544, PL 75-761.
Dexter Dam	OR Lane	Middle Fk, Willamette R	P	40.3	1,450.0	690.0	690.0	1,725	1,415	
Dorena Lk	OR Lane	Cow R	FNPI	4.8	695.0	835.0	832.0	990	940	HD 544, PL 75-761.
			F	5.5	835.0	770.5	770.5	1,885	1,815	HD 544.
Dworshak Dam and Res	ID Clearwater	North Fk, Clearwater R	FNP	65.0	832.0	1,445.0	1,445.0	1,815	920	PL 75-761.
Fall Cr Dam and Lk	OR Lane	Fall Cr	F	2,016.0	1,600.0	830.0	830.0	17,090	9,050	HD 403, PL 87-874.
			FNI	7.5	834.0	728.0	728.0	1,865	1,760	HD 531.
Fern Ridge Lk	OR Lane	Long Tom R	F	107.5	830.0	373.5	373.5	1,760	460	PL 81-516
			FNPI	15.7	375.1	353.0	353.0	10,305	9,340	HD 544.
Foster Lake	OR Linn	South Santiam R	F	93.9	373.5	641.0	637.0	9,340	1,515	PL 75-761
			FNPI	4.9	641.0	637.0	613.0	1,260	1,195	HD 544.
Green Peter Lk	OR Linn	Middle Fk, Santiam R	F	24.9	637.0	1,010.0	1,010.0	1,195	895	PL 86-645
			FNPI	18.3	1,015.0	992.0	992.0	3,705	3,605	HD 531.
Hills Creek Lk	OR Lane	Middle Fk, Willamette R	F	249.9	1,010.0	1,543.0	1,541.0	3,605	2,072	PL 81-516, PL 83-780.
			FNPI	5.6	1,543.0	1,448.0	1,448.0	2,850	2,710	HD 531.
Howard Hanson Dam	WA King	Green R	F	194.6	1,541.0	1,141.0	1,141.0	2,710	1,575	PL 81-516.
			FA	80.0	1,206.0	1,040.0	1,040.0	1,750	763	HD 531.
Ice Harbor Dam Lk Sacajawaea	WA Walla, Walla, Frank- lin.	Snake R	NP	25.6	1,141.0	437.0	437.0	763	13	PL 81-516.
			F	24.9	440.0	265.0	265.0	8,370	8,210	HD 704, PL 79-14.
John Day Dam Lk Umatilla	OR Sherman	Columbia R	F	158.0	268.0	262.0	262.0	55,000	52,000	HD 531.
			FNP	150.0	265.0	257.0	257.0	49,000	42,000	PL 81-516.
Libby Dam Lk Kootenai	MT Lincoln	Kootenai R	F	192.0	262.0	2,287.0	2,287.0	49,000	42,000	
Little Goose L&D Lk Bryan	WA Columbia, Whitman	Snake R	FP	4,979.5	2,489.0	633.0	633.0	46,365	14,381	HD 531, PL 81-516.
Lookout Point Lk	OR Lane	Middle Fk, Willamette R	PN	49.0	638.0	825.0	819.0	2,090	1,860	HD 704, PL 79-14.
			P	324.2	926.0	825.0	825.0	4,255	2,090	HD 544.
Lost Creek Lk	OR Jackson	Rogue R	FNPI	315.0	1,872.0	1,751.0	1,751.0	3,430	1,800	PL 75-761.
Lower Granite L&D	WA Garfield, Whitman	Snake R	FPIR	43.6	738.0	733.0	733.0	8,900	8,540	HD 566, PL 87-874.
Lucky Peak Dam and Lk	ID Ada	Boise R	NPI	13.9	3,060.0	2,905.0	2,905.0	2,817	802	HD 704, PL 79-14.
			F	284.4	3,055.0	540.0	540.0	6,700	6,550	PL 79-526.
Lwr Monumental L&D Lk HG West	WA Walla, Walla, Frank- lin.	Snake R	NP	20.0	540.0	335.0	335.0	38,800	36,000	HD 704, PL 79-14.
			NP	185.0	340.0	225	225	53	53	HD 578, PL 75-761.
McNary L&D, Dam Lk Wallula	WA Benton	Columbia R	F	7.5	1,265.0	895.0	895.0	963	0	PL 74-738.
			F	106.3	1,215.0	155.0	155.0	11,200	10,350	HD 531, PL 81-516.
Mill Creek Dam Lk	OR Umatilla	Mill Cr	NP	52.5	160.0	2,047.0	2,047.0	269	96	PL 89-298
Mud Mountain Dam	WA King, Pierce	White R	F	11.6	2,113.5	700.0	700.0	1,170	193	HD 601, PL 93-251.
The Dalles L&D Lk Cello	OR Klickitat	Columbia R	NP	65.4	800.0	710.0	721.0	0	0	RHA 1935.
			N	0.0	734.5	721.0	721.0	0	0	RHA 1935.
Willow Creek Lk	OR Morrow	Willow Cr	F	0.0	721.0	710.0	710.0	0	0	
Wynoochee Dam and Lk	WA Grays, Harbor	Wynoochee R	FMCA	0.0	734.5	721.0	721.0	0	0	
			N	0.0	734.5	721.0	721.0	0	0	
Ohio River Division										
Allegheny L&D 2	PA Allegheny	Allegheny R	N	0.0	721.0	710.0	710.0	0	0	RHA 1935.
Allegheny L&D 3	PA Allegheny	Allegheny R	N	0.0	734.5	721.0	721.0	0	0	RHA 1935.

APPENDIX E TO § 222.5—LIST OF PROJECTS—Continued

Project name ¹	State/county	Stream ¹	Project purpose ²	Storage 1,000 AF	Elev limits feet M.S.L.		Area in acres		Auth legis ³
					Upper	Lower	Upper	Lower	
Allegheny L&D 4	PA Allegheny Westmoreland.	Allegheny R	N	0.0	745.0	734.5	0	0	RHA 1912.
Allegheny L&D 5	PA Armstrong	Allegheny R	N	0.0	756.8	745.0	0	0	RHA 1912
Allegheny L&D 6	PA Armstrong	Allegheny R	N	0.0	769.0	756.8	0	0	RHA 1912
Allegheny L&D 7	PA Armstrong	Allegheny R	N	0.0	782.1	769.0	0	0	RHA 1912.
Allegheny L&D 8	PA Armstrong	Allegheny R	N	0.0	800.0	782.1	0	0	RHA 1912, 1935.
Allegheny L&D 9	PA Armstrong	Allegheny R	N	0.0	822.0	800.0	0	0	RHA 1935.
Allegheny Res Kinzua Dam	PA Warren	Allegheny R	F	607.0	1,365.0	1,328.0	21,180	12,080	PL 74-738.
Alum Cr Lk	OH Delaware	Alum Cr	FPCAR	549.0	1,328.0	1,240.0	12,080	1,900	
				53.1	901.0	888.0	4,852	3,387	PL 87-874.
Atwood Lk	OH Tuscarawas	Indian Fk Cr	F	26.1	941.0	928.0	3,387	3,105	PW 1933.
Barkley Dam Lk Barkley	Ky Lyon, Livgst	Cumberland R	F	7.6	928.0	922.5	1,540	1,250	
				1,213.0	375.0	359.0	93,450	57,920	PL 79-525.
				259.0	359.0	354.0	57,920	45,210	
Barren River Lk	KY Allen, Barren	Barren R	F	610.0	354.0	233.0	20,150	10,000	PL 75-261.
Beach City Lk	OH Tuscarawas	Sugar Cr	F	568.8	590.0	552.0	10,000	4,340	
Beech Fk Lk	WV Wayne	Beech Fk Cr	F	190.3	552.0	525.0	6,150	420	PW 1933.
				69.9	976.5	948.0	0	0	
				0.0	0.0	0.0	0	0	
Belleville L&D	WV Wood	Ohio R	F	28.3	614.5	592.0	1,847	725	PL 87-874.
Berlin Lk	OH Meigs	Ohio R	F	5.0	592.0	583.5	725	460	
	OH Mahoning, Portage	Mahoning R	N	0.0	582.0	560.0	0	0	RHA 1909.
Bluestone Lk	WV Summers	New R	F	38.3	1,032.0	1,024.7	5,500	3,590	PL 75-761.
Bolivar Dam	OH Stark, Tuscarawas	Sandy Cr	F	56.6	1,024.7	1,016.5	3,590	2,200	
Brookville Lk	IN Franklin	E Fork of Whitewater R	F	592.6	1,520.0	1,410.0	9,180	2,040	PL 74-738.
Buckhorn Lk	KY Leslie	Middle Fk of Kentucky R	F	7.5	1,410.0	1,406.0	2,040	1,800	PL 75-761.
				149.6	962.0	895.0	6,500	0	PW 1933.
Burnsville Lk	WV Braxton	L Kanawha R	F	128.4	748.0	713.0	5,260	2,430	PL 75-761.
				135.8	840.0	782.0	3,610	1,230	PL 75-761.
				21.8	782.0	757.0	1,230	550	
CJ Brown Dam & Res	OH Clark	Buck Cr	F	51.5	825.0	789.0	1,902	965	PL 75-761.
CM Harden Lk	IN Parke	Raccoon Cr	F	10.2	789.0	776.0	965	953	
				26.8	1,023.0	1,012.0	2,720	2,120	PL 87-874.
Caesar Cr Lk	OH Warren	Caesar Cr	F	83.5	690.0	661.0	3,910	2,060	PL 75-761
				33.1	661.0	640.0	2,060	1,100	
Cadles Mill Lk	IN Putman	Mill Cr	F	140.2	883.0	849.0	6,110	2,830	PL 75-761.
Cannelton L&D	KY Hancock	Ohio R	F	88.7	849.0	800.0	2,830	700	
	IN Perry	Carr Cr	F	201.0	704.0	636.0	4,840	1,400	PL 75-761.
	KY Knott	Carr Cr	N	0.0	383.0	358.0	0	0	RHA 1909
Carr Fk Lk			F	25.1	1,055.0	1,027.0	1,120	710	PL 87-874.
			F	10.8	1,027.0	1009.0	710	530	

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Cave Run Lk	KY Rowan	Licking R	F	391.5	765.0	730.0	14,870	8,270	PL 74-738
Center Hill Lk	TN Dekalb	Caney Fk	FAR	75.3	730.0	720.0	8,270	6,790	
Charles Mill Lk	OH Ashland	Black Fk	F	762.0	685.0	648.0	23,060	18,220	PL 75-761.
Cheatham L&D	TN Cheatham	Cumberland R	P	492.0	648.0	618.0	18,220	14,990	
Clendening Lk	OH Harrison	Brush Fk	F	80.6	1,020.0	997.0	6,050	1,350	PW 1933.
Conemaugh River Lk	PA Indiana, Westmoreland.	Conemaugh R	F	4.5	997.0	993.0	1,350	827	
Cordell Hull Dam & Res	TN Smith	Cumberland R	N	19.8	385.0	382.0	7,450	5,630	RHA 1946, PL 396.
Crooked Cr Lk	PA Armstrong	Crooked Cr	F	84.2	382.0	345.0	5,630	0	PL 396.
Date Hollow Lk	TN Clay	Obey R	F	27.5	910.5	898.0	2,620	1,800	PW 1933.
Dashields L&D	PA Allegheny	Ohio R	F	8.0	898.0	893.0	1,800	1,430	
Deer Cr Lk	OH Pickaway	Deer Cr	F	270.0	975.0	880.0	6,820	300	PL 74-738, PL 75-761.
Delaware Lk	OH Delaware	Olentangy R	PR	17.8	504.5	499.0	12,200	9,820	RHA 1946.
Dewey Lk	KY Floyd	Johns Cr	NR	0.0	499.0	424.0	9,820	0	
Dillon Lk	OH Muskingum	Licking R	F	89.4	920.0	840.0	1,940	350	PL 74-738, PL 75-761.
Dover Dam	OH Tuscarawas	Tuscarawas R	F	353.0	663.0	651.0	30,990	27,700	
E Br Clarion River Lake	PA Elk	E Br Clarion R	F	496.0	651.0	631.0	27,700	21,860	
E Fk Res Wm H Harsha Lk	OH Clermont	E Fk Little Miami R	N	0.0	692.0	682.0	0	0	RHA 1909.
East Lynn Lk	WV Wayne	E Fk Twelvepole	F	81.5	844.0	810.0	4,046	1,277	PL 75-761.
Emsworth L&D	PA Allegheny	Ohio R	F	14.6	810.0	796.0	1,277	727	
Fishtrap Lk	KY Pike	Levisa Fk	F	118.0	947.0	915.0	8,550	1,270	PL 75-761
Gallipolis L&D	WV Mason	Ohio R	F	5.6	915.0	910.0	1,270	950	
Grayson Lk	OH Gallia	L Sandy R	F	76.1	686.0	650.0	3,340	1,100	PL 75-761
Green R L&D 1	KY Carter	Green R	F	4.9	650.0	645.0	1,100	880	
Green R L&D 2	KY Henderson	Green R	F	256.5	790.0	737.0	10,280	1,560	PL 75-761.
Green River Lk	KY McLean	Green R	F	4.4	737.0	734.0	1,560	1,330	
Greenup L&D 3	KY Taylor	Greenup	F	203.0	916.0	858.0	10,100	0	PW 1933.
Hannibal L&D	OH Scioto	Ohio R	F	19.0	1,685.0	1,670.0	1,370	1,160	PL 78-526.
Hildebrand L&D	OH Monroe	Monongahela	F	19.8	1,670.0	1,651.0	1,160	920	
Huntington Lk	IN Hunt	Wabash R	F	202.2	795.0	733.0	4,600	2,160	PL 75-761.
			F	73.6	733.0	683.0	2,160	820	
			F	65.3	701.0	662.0	2,351	1,005	PL 75-761.
			F	5.5	662.0	656.0	1,005	823	
			N	0.0	710.0	692.0	0	0	RHA 1909.
			F	126.7	825.0	757.0	2,681	1,131	PL 75-761.
			F	27.2	757.0	725.0	1,131	569	
			N	0.0	538.0	515.0	0	0	RHA 1935.
			F	89.6	681.0	645.0	3,633	1,509	PL 86-645.
			F	10.7	645.0	637.0	1,509	1,159	
			N	0.0	349.1	337.3	0	0	RHA 1888.
			N	0.0	363.4	349.1	0	0	RHA 1888.
			F	479.1	713.0	675.0	19,100	8,210	PL 75-761.
			F	81.5	675.0	664.0	8,210	6,650	
			N	0.0	515.0	485.0	0	0	RHA 1909.
			N	0.0	623.0	602.0	0	0	RHA 1909.
			N	0.0	835.0	814.0	0	0	RHA 1950.
			F	140.6	798.0	749.0	7,900	900	PL 85-500.

APPENDIX E TO § 222.5—LIST OF PROJECTS—Continued

Project name ¹	State/county	Stream ¹	Project purpose ²	Storage 1,000 AF	Elev limits feet M.S.L.		Area in acres		Auth legis ³
					Upper	Lower	Upper	Lower	
J Percy Priest Dam & Res	TN Davidson	Stones R	FR F FP FPR PR F FMCR	8.4 252.0 15.0 489.5 0.0 483.0 78.6 16.5	749.0 504.5 490.5 489.5 483.0 483.0 1,446.0 1,396.0	737.0 490.5 489.5 483.0 480.0 1,396.0 1,380.0	900 22,720 14,400 14,000 11,630 10,570 2,098 1,143	500 14,400 14,000 11,630 10,570 1,143 310	PL 75-761.
JW Flammagan Dam & Res	VA Dickenson	Pound R							
Kentucky R L&D 1	KY Carroll	Kentucky R	N	0.0	430.0	421.8	0	0	RHA 1879.
Kentucky R L&D 2	KY Henry Owen	Kentucky R	N	0.0	444.0	430.0	0	0	RHA 1879.
Kentucky R L&D 3	KY Henry Owen	Kentucky R	N	0.0	457.1	444.0	0	0	RHA 1879.
Kentucky R L&D 4	KY Franklin	Kentucky R	N	0.0	470.4	457.1	0	0	RHA 1879.
Laurel River Lk	KY Laurel, Whitley	Laurel R	P	185.0	1,018.5	982.0	6,060	4,200	PL 86-645.
Leesville Lake	OH Carroll	McGuire Cr.	F	250.6	982.0	760.0	4,200	0	
London L&D	WV Kanawha	Kanawha R	FCR	17.9	977.5	963.0	1,470	1,000	PW 1933.
Loyalhanna Lk	PA Westmoreland	Loyalhanna Cr	N	5.5	963.0	957.0	1,000	829	
M J Kirwan Dam & Res	OH Portage	W. Br Mahoning R	FC	93.3	975.0	910.0	3,280	210	RHA 1930. PL 74-738. PL 75-761.
Mahoning Cr Lk	PA Armstrong	Mahoning Cr	F FCAR	22.0 52.9	993.0 985.5	985.5 951.0	3,240 2,650	2,650 570	PL-74-738 PL 75-761.
Markland L&D	IN Switzerland	Ohio R	FRC	64.7	1,162.0	1,098.0	2,370	280	PL 74-738.
Marmet L&D	KY Gallatin	Kanawha	N	5.1	1,098.0	1,075.0	280	170	PL 75-761.
Martins Fk Lk	WV Kanawha R KY Harlan	Martins Fk of Clover R	N F	0.0 14.3	455.0 590.0	420.0 566.0	0 578	0 340	RHA 1909. PL 89-298.
Maxwell L&D	PA Fayette Washington	Monongahela R	R	3.1	1,310.0	1,300.0	340	274	
McAlpine L&D	KY Jefferson	Monongahela R	N	3.7	1,300.0	1,265.0	274	0	
Meldahl L&D	IN Clark	Ohio R	N	0.0	763.0	743.5	0	0	RHA 1909.
Mississinewa Lk	KY Bracken OH Clermont IN Miami	Ohio R Mississinewa R	N F	0.0 293.2	485.0 779.0	455.0 737.0	0 12,830	0 3,180	RHA 1909. PL 85-500.
Mohawk Dam	OH Coshocton	Walhonding R	FR	51.9	737.0	712.0	1,280	1,280	
Mohicanville Dam	OH Ashland	Lk Fork	F	285.0	890.0	799.2	7,950	0	PW 1933.
Monongahela R L&D 2	PA Allegheny	Monongahela R	N	102.0	963.0	932.0	8,800	0	PW 1933.
Monongahela R L&D 3	PA Allegheny	Monongahela R	N	0.0	718.7	710.0	0	0	RHA 1902.
Monongahela R L&R 4	PA Washington Westmoreland.	Monongahela R	N	0.0	726.9	718.7	0	0	RHA 1905.
Monongahela R L&D 7	PA Greene, Fayette	Monongahela R	N	0.0	743.5	726.9	0	0	RHA 1909.
Monongahela R L&D 8	PA Greene, Fayette	Monongahela R	N	0.0	778.0	763.0	0	0	RHA 1922.
Monroe Lk	IN Monroe	Salt Cr	F	258.8	556.0	538.0	18,450	10,750	RHA 1922, 1950, 1973. FCA 1958.

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Montgomery Island L&D	PA Beaver	Ohio R	FMA	159.9	538.0	515.0	10,750	3,280	RHA 1909.
Morgantown L&D	WV Monongahela R. OH Trumbull	N	N	0.0	682.0	664.5	0	0	RHA
Mosquito Cr Lk	OH Trumbull	N	0.0	814.0	797.0	0	0	1909.	7,850 PL 75-761.
N Br Kokosing River Lk	OH Knox	North Br of Kokosing R	F	21.7	904.0	901.4	8,900	7,850	7,220
N Fk Pound Lk	VA Wise	N Fk Pound R	F	80.4	901.4	899.9	7,850	154	154 PL 87-874.
New Cumberland L&D	WV Hancock	Ohio R	F	13.3	1,644.0	1,611.0	349	106	154 PL 86-645.
Newburgh L&D	OH Jefferson	Ohio R	N	0.0	664.5	644.0	0	0	RHA 1909.
Nolin Lk	KY Henderson	Ohio R	N	0.0	358.0	342.0	0	0	RHA 1909.
Ohio R L&D 52	IN Warrick	Nolin R	F	439.2	560.0	515.0	14,530	5,790	5,790 PL 75-761.
Ohio R L&D 53	KY Edmonson	Ohio R	FR	106.4	302.0	290.0	5,790	2,880	2,880 RHA 1909, 1910, 1918.
Old Hickory L&D	KY McCracken	Ohio R	N	0.0	290.0	276.6	0	0	RHA 1909, 1910, 1918.
Opeskiska L&D	IL Massac	Cumberland R	P	63.0	445.0	442.0	22,500	19,550	RHA 1946.
Paint Cr Lk	KY Ballard	Monongahela R	N	357.0	442.0	375.0	19,550	0	0
Paintsville Lk	IL Pulaski	Paint Cr	N	0.0	857.0	835.0	0	0	RHA 1950.
Patoka Lk	TN Davidson	Paint Cr	F	124.7	845.0	798.0	4,761	770	1,190 PL 75-761.
Piedmont Lk	WV Monongahela	Paint Cr	F	11.4	798.0	787.5	1,190	261	1,139 PL 89-298.
Pike Island L&D	OH Ross, Highland	Patoka R	F	32.8	709.0	650.0	1,139	8,880	8,880 PL 89-298.
Pleasant Hill Lk	OH Harrison	Stillwater Cr	F	121.1	548.0	536.0	11,300	8,880	2,010
R D Bailey Lk	WV Mingo, Wyoming	Ohio R	F	167.3	536.0	508.0	8,880	2,310	PW 1933.
Racine L&D	OH Meigs	Ohio R	FCR	32.2	924.6	913.0	3,170	1,987	RHA 1909.
Rough River Lk	Grayson, Breckinridge	Clear Fk	N	0.0	644.0	623.0	0	0	850 PW 1933.
Salamonie Lk	IN Wabash	Guyandot R	F	74.2	1,065.0	1,020.0	2,600	627	630 PL 87-874.
Senecaville Lk	OH Guernsey	Ohio R	F	5.5	1,020.0	1,012.5	850	440	0
Shenango River Lk	PA Mercer	Rough R	F	169.5	1,155.0	1,035.0	2,850	5,100	5,100 PL 75-761.
Smithland L&D	KY Livingston	Salamonie R	F	12.2	1,035.0	1,012.0	630	2,860	2,860 PL 85-500.
Summersville Lk	IL Pope	Seneca Fk	N	0.0	560.0	538.0	0	976	3,550 PW 1933.
	WV Nicholas	Shenango R	F	214.4	524.0	495.0	10,260	5,100	3,560 PL 75-761.
		Ohio R	FCAR	90.2	495.0	470.0	5,100	2,180	0
		Gauley R	F	202.9	793.0	755.0	9,340	2,860	2,860 PL 85-500.
			N	47.6	755.0	730.0	2,860	0	0
			F	45.1	842.5	832.2	5,170	3,550	3,550 PW 1933.
			F	12.8	832.2	828.2	3,550	2,912	2,912 PL 75-761.
			F	151.0	919.0	896.0	11,090	3,560	1,910
			N	29.9	896.0	885.0	3,560	0	0
			F	0.0	324.0	302.0	0	0	RHA 1909.
			F	221.9	1,710.0	1,652.0	4,913	2,790	2,790 PL 75-761.
			FRCA	161.8	1,652.0	1,535.0	2,790	514	514

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Project name ¹	State/county	Stream ¹	Project pur- pose ²	Storage 1,000 AF	Elev limits feet M.S.L.		Area in acres		Auth legis ³
					Upper	Lower	Upper	Lower	
Sutton Lk	WV Braxton	Elk R	FCAR	60.0	925.0	850.0	1,520	270	PL 75-761.
Tappan Lk	OH Harrison	L Stillwater Cr	F	26.5	909.0	899.3	3,100	2,350	PW 1933.
Tionesta Lk	PA Forest	Tionesta Cr	FCR	11.4	899.3	894.0	2,350	1,960	PL 74-738, PL 75-761.
Tom Jenkins Dam, Burr Oak, Lk	OH Athens	E Br Sandy Cr	F	125.6	1,170.0	1,085.0	2,770	480	FCA 1944.
Tygart Lake	WV Taylor	Tygart R	FRM	17.6	740.0	721.0	1,182	664	PL 78-534.
Union City Res	PA Erie	French Cr	F	5.8	721.0	710.0	664	394	PWA 1934.
Uniontown L&D	PA Erie	French Cr	FMACR	178.1	1,167.0	1,094.0	3,430	1,740	PL 87-874.
W Fk of Mill Cr Winton Woods Lk	OH Hamilton	W Fk Mill Cr	F	9.8	702.0	675.0	557	183	RHA 1909.
Willow Island L&D	OH Washington	Ohio R	N	0.0	602.0	582.0	0	0	PW 1933.
Wills Cr Lk	OH Coshocton Wills Cr, Muskingum.	Ohio R	F	190.0	779.0	742.0	11,450	900	PL 79-526.
Winfield L&D	WV Putnam	Kanawha R	CR	0.0	0.0	0.0	0	0	RHA 1935.
Wolf Cr Dam, Lk Cumberland	KY Russell	Cumberland R	P	2,142.0	723.0	673.0	50,250	35,820	PL 75-761.
Woodcock Cr Lk	PA Crawford	Woodcock Cr	F	2,094.0	760.0	723.0	63,530	50,250	FCA 1962.
Youghiogheny R Lk	PA Fayette	Youghiogheny R	FCAR	15.0	1,209.0	1,181.0	775	325	FCA 1938.
			FCAR	99.5	1,470.0	1,439.0	3,570	2,840	
			FCAR	149.3	1,439.0	1,419.0	2,840	2,300	
South Atlantic Division									
Aberdeen L&D and Res	MS Monroe	Tombigbee R	N	3.9	190.5	189.5	4,359	3,883	PL 79-525.
Aliceville Lock Dam & Res	AL Pickens	Tombigbee R	N	7.6	136.5	135.5	8,655	7,945	PL 79-525.
Alatoona Dam & Res	GA Bartow	Etowah R	F	302.6	860.0	840.0	19,201	11,862	PL 77-228.
B Everett Jordan Dam & Lk	NC Chatham	Haw R	F	284.6	840.0	800.0	11,862	3,251	PL 88-253.
Bay Springs Lock Dam & Res	MS Tishomingo	Tombigbee R	F	538.4	240.0	216.0	31,811	13,942	PL 79-525.
Buford Dam Lk, Sidney Lanier	GA Forsyth, Gwinnett	Chattoohocsee R	F	140.4	216.0	202.0	13,942	6,658	PL 79-14.
Carters Dam & Res	GA Murray	Cosawatee R	F	37.0	414.0	408.0	6,700	5,740	PL 79-14.
Claborne Lock Dam & Res	AL Monroe	Alabama R	N	596.8	1,085.0	1,071.0	47,182	38,542	PL 79-14.
Clarks Hill Dam & Lk	GA Columbia	Savannah R	F	1,087.6	1,071.0	1,035.0	38,542	22,442	PL 79-14.
Coffeetown Lock Dam & Res	SC McCormick	Tombigbee R	F	89.2	1,099.0	1,074.0	3,880	3,275	PL 79-14.
Columbus Lock Dam & Res	AL Clark, Choctaw	Tombigbee R	N	41.4	1,074.0	1,022.0	3,275	2,196	PL 79-14.
	MS Lowndes	Tombigbee R	N	16.6	35.0	32.0	5,930	5,210	PL 79-14.
			FP	390.0	335.0	330.0	78,500	71,100	PL 78-534.
			N	1,045.0	330.0	312.0	71,100	45,000	PL 60-317.
			N	19.9	32.5	30.0	8,500	7,500	PL 79-525.
			N	8.5	163.5	162.5	9,400	8,500	PL 79-525.

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Demopolis Lock Dam & Res	AL Sumter, Marengo	Tombigbee R	N	0.0	73.0	73.0	10,000	10,000	10,000	PL 60-317.
Falls Dam & Lk	NC Wake	Neuse R	F	220.9	264.0	250.1	20,810	20,810	11,310	PL 89-298.
G W Andrews L&D and Res	AL Houston	Chattahoochee R	N	8.2	102.0	96.0	2,600	1,540	1,190	PL 79-14.
Gainesville L&D and Res	GA Early	Tombigbee R	N	5.8	109.5	108.5	5,900	6,920	5,900	PL 79-525.
Hartwell Dam & Lk	AL Sumter, Greene	Savannah R	F	293.0	660.0	660.0	61,400	61,400	55,950	PL 81-516.
Holt Lock Dam & Res	SC Anderson	Black Warrior R	FP	1,416.0	625.0	186.0	55,950	3,296	27,650	PL 60-317.
Inglis Dam Lk Rousseau	AL Tuscaloosa	Cross FL Barge Canal	NP	3.3	187.0	24.0	4,030	2,040	2,040	PL 77-675.
Jim Woodruff L&D	FL Levy, Marion, Citrus	Apalachicola R	NP	20.0	77.5	76.5	38,850	36,000	36,000	PL 79-14.
John H Kerr Dam & Res	VA Gadsden, Jackson	Roanoke R	F	1,281.4	320.0	300.0	83,200	48,900	19,700	PL 78-534.
John Hollis Bankhead L&D and Res ..	AL Tuscaloosa	Black Warrior R	NP	1,027.0	300.0	268.0	48,900	48,900	8,730	PL 60-168.
Lk Okeechobee	FL Okeechobee, Glades, Hendry, Palm Beach, Martin	Central and Southern FL	FNIMC	27.1	255.0	252.0	9,245	454,900	326,000	PL 71-520, PL 75-392, PL 79-14, PL 80-858, PL 83-780, PL 90.
Lock A	MS Monroe	Tombigbee R	N	0.9	220.5	219.5	980	850	850	PL 79-525.
Lock B	MS Monroe	Tombigbee R	N	2.7	245.5	244.5	2,841	2,615	2,615	PL 79-525.
Lock C	MS Monroe	Tombigbee R	N	1.6	270.5	269.5	1,699	1,586	1,586	PL 79-525.
Lock D	MS Itawamba	Tombigbee R	N	2.0	300.5	299.5	2,021	1,959	1,959	PL 79-525.
Lock E	MS Itawamba, Prentiss	Tombigbee R	N	0.9	330.5	329.5	889	821	821	PL 79-525.
Millers Ferry L&D	AL Wilcox	Alabama R	NP	16.7	80.0	79.0	17,201	16,160	16,160	PL 79-14.
Okatibbee Dam & Res	MS Lauderdale	Okatibbee Cr	F	46.5	352.0	343.0	6,580	3,800	3,800	PL 87-874.
Philpott Dam & Lk	VA Henry	Chickasawby R	FMA	34.3	343.0	328.0	3,800	3,370	2,880	PL 78-534.
R B Russell Dam and Lk	GA Elbert	Smith R	FP	111.2	974.0	920.0	2,880	2,880	1,350	PL 89-789.
Robert F Henry Lock Dam & Res	SC Abbeville	Savannah R	F	140.0	480.0	475.0	29,340	26,653	24,117	PL 79-14.
Rodman Dam & Lk Ocklawaha	AL Autauga, Lowndes	Alabama R	NP	44.6	125.0	124.0	13,300	13,300	10,470	PL 77-675.
S-10 & Water Cons Area 1	FL Putman & Marion	Cross FL Barge Canal	N	48.0	232	20.0	17,350	12,950	12,950	PL 80-858.
S-11 & Water Cons Area 2A	FL Palm Beach Broward	Central and Southern FL	F	181.9	183	17.0	141,250	141,250	26,000	PL 80-858.
S-12 & Water Cons Area 3A	FL Broward & Dade	Central and Southern FL	F	273.2	17.0	14.0	110,500	110,500	107,500	PL 80-858.
Selden Lock and Res	AL Hale, Greene	Central and Southern FL	F	236.3	16.6	14.5	110,500	107,500	365,000	PL 80-858.
W Kerr Scott Dam & Res	NC Wilkes	Black Warrior R	F	1,661.0	14.5	10.5	487,200	316,000	316,000	PL 83-780.
Walter F George L&D	GA Clay	Yadkin R	N	9.1	95.5	94.0	8,200	6,900	6,900	PL 60-317.
West Point Dam & Res	AL Henry	Chattahoochee R	FM	112.0	1,075.0	1,030.0	4,000	1,475	1,475	PL 81-516.
William Bacon Oliver L&D and Res ..	GA Troup	Chattahoochee R	NP	33.0	1,030.0	1,000.0	1,475	45,181	36,375	PL 87-874.
	AL Tuscaloosa	Black Warrior R	N	244.0	190.0	184.0	45,181	25,864	15,512	PL 60-317.
				306.1	635.0	620.0	790	790	790	
				0	122.9	122.9				

South Pacific Division

Alamo Dam & Lk	AZ Mohave, Yuma	Bill Williams R	F	1,046.2	1,235.0	1,174.0	13,307	7,045	7,045	PL 78-534.
Bear Dam	CA Mariposa	Bear Cr	F	7.7	413.5	344.0	265	0	0	PL 78-534.
Black Butte Lk	CA Tehama	Stony Cr	FI	137.1	473.5	414.6	4,453	577	577	PL 78-534.

APPENDIX E TO § 222.5—LIST OF PROJECTS—Continued

Project name ¹	State/county	Stream ¹	Project purpose ²	Storage 1,000 AF		Elev limits feet M.S.L.		Area in acres		Auth legis ³
				Upper	Lower	Upper	Lower	Upper	Lower	
Brea Dam & Res	CA Orange	Brea Cr	F	4.0	279.0	208.0	163	0	FCA 1936.	
Buchanan Dam H.V. Eastman Lk	CA Madera	Chowchilla R	F	45.0	587.0	559.0	1,785	1,482	PL 78-874.	
Burns Dam	CA Merced	Burns Cr	FI	140.0	587.0	466.0	1,785	484	0	
Carbon Canyon Dam & Res	CA Orange	Carbon Cr	F	6.8	300.0	266.0	662	0	PL 78-534.	
Coyote Valley Dam Lk Mendocino	CA Mendocino	East Fork, Russian R	F	6.6	475.0	403.0	225	0	PL 74-738.	
Dry Cr (Warm Springs) Lk & Channel	CA Sonoma	Dry Cr	IM	50.1	764.8	737.5	1,922	1,740	PL 75-761.	
Farmington Dam	CA San Joaquin, Stanislaus.	Littlejohn Cr	F	72.3	737.5	637.0	1,740	20	0	
Fullerton Dam & Res	CA Orange	Fullerton Cr	F	136.0	495.0	451.1	3,600	2,600	PL 87-874.	
Hansen Dam Res	CA Los Angeles	Tujunga Wash	MR	225.0	451.1	291.0	2,600	500	0	
Hidden Dam Hensley Lk	CA Madera	Fresno R	F	52.0	156.5	120.0	4,107	0	PL 78-534.	
Isabella Lk	CA Kern	Kern R	F	0.8	290.0	261.0	62	0	FCA 1936.	
Lopez Dam Res	CA Los Angeles	Pocoma Wash	F	25.4	1,060.0	990.0	781	0	FCA 1936.	
Mariposa Dam	CA Mariposa	Mariposa Cr	F	65.0	540.0	485.8	1,567	811	PL 87-874.	
Marris Cr Lk	CA Nevada	Marris Cr	F	85.0	540.0	448.0	1,567	280	0	
Mathews Canyon Dam & Res	NV Lincoln	Mathews Canyon	F	588.1	2,605.5	2,470.0	11,454	26	PL 785-34.	
Mojave River Dam & Res	CA San Bernardino	Mojave R	F	0.4	1,272.9	1,253.7	40	0	FCA 1936.	
New Hogan Lk	CA Calaveras	Calaveras R	FI	15.0	439.5	370.0	512	0	PL 78-534.	
Owens Dam	CA Mariposa	Owens Cr	F	19.6	5,838.0	5,780.0	762	61	PL 87-874.	
Painted Roc Dam & Res	AZ Maricopa	Gila R	F	8.3	5,461.0	5,420.0	300	0	PL 81-516.	
Pine Canyon Dam & Res	NV Lincoln	Pine Canyon	F	89.7	3,134.0	2,988.0	1,978	0	PL 86-645.	
Pine Flat Lk Kings R	CA Fresno	Kings R	F	165.0	713.0	666.2	4,333	2,818	PL 78-534.	
Prado Dam & Res	CA Riverside	Santa Ana R	FI	302.2	713.0	586.0	4,333	702	0	
San Antonio Dam & Res	CA Los Angeles	San Antonio Cr	F	3.6	407.5	347.0	174	0	PL 78-534.	
Santa Fe Dam & Res	CA Los Angeles	San Gabriel R	F	2,491.5	661.0	524.0	53,200	0	PL 81-516.	
Sepulveda Dam & Res	CA Los Angeles	Los Angeles R	F	7.8	5,675.0	5,604.0	254	0	PL 81-516.	
Success Lk	CA Tulare	Tule R	F	1,000.0	951.5	565.5	5,966	0	PL 78-534.	
Terminus Dam Lk Kaweah	CA Tulare	Kaweah R	FI	196.2	543.0	460.0	6,630	0	FCA 1936.	
Whitlow Ranch Dam & Res	AZ Pinal	Queen Cr	F	7.7	2,238.0	2,125.0	145	0	FCA 1936.	
Whittier Marrows Dam & Res	CA Los Angeles	San Gabriel Rio Hondo R.	F	32.1	496.0	421.0	1,084	0	FCA 1936, 1941.	
			F	17.4	710.0	668.0	1,335	0	FCA 1936.	
			FI	75.0	652.5	588.9	2,477	409	PL 78-534.	
			FI	136.1	694.0	570.0	1,913	276	PL 78-534.	
			F	35.6	2,166.0	2,056.0	828	0	PL 79-526.	
			F	34.9	228.5	184.0	2,411	0	FCA 1936.	
Southwestern Division										
Abiquiu Dam	NM Rio Arriba	Rio Chama	F	572.2	6,283.5	6,220.0	7,469	4,120	PL 80-858.	
Addicks Res	TX Harris	Buffalo Bayou	FM	191.3	6,220.0	6,060.0	4,120	0	0	
Aquilla Lk	TX Hill	Aquilla Cr	F	200.8	112.0	71.1	16,423	3,280	HD250-83-2.	
			MR	161.4	564.5	537.5	8,980	26	PL 90-483.	
				93.6	537.5	478.6	3,280	26	0	

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Arcadia Lk	OK Oklahoma	Deep Fork R	F	64.4	1,029.5	1,006.0	3,820	1,820	PL 91-611.
B A Steinhagen Lk	TX Taylor, Jasper	Neches R	FMCR	27.4	1,006.0	970.0	1,820	20	20
Bardwell Lk	TX Ellis	Waxahatchie Cr	F	24.5	83.0	81.0	13,700	10,950	SD98-76-1.
Barker Res	TX Harris Ft Bend	Buffalo Bayou	M	79.6	439.0	421.0	6,040	3,570	PL 86-399.
Beaver Lk	AR Carroll, Benton, Washington.	White R	F	42.8	421.0	372.6	3,570	0	0
			F	209.0	1,060.0	73.2	16,734	0	HD250-83-2, RHA 1938.
			F	299.6	1,130.0	1,120.0	31,700	28,220	PL 83-780.
			FPM	925.1	1,120.0	1,077.0	28,220	15,540	PL 85-500.
Belton Lk	TX Bell	Leon R	F	640.0	631.0	594.0	23,600	12,400	PL 79-526.
			MI	372.7	594.0	470.0	12,400	42	42
Benbrook Lk	TX Tarrant, Parker	Clear Fk Trinity R	F	170.4	724.0	694.0	7,630	3,770	HD88-81-1.
			NM	72.5	694.0	656.0	3,770	730	HD103-771.
Big Hill Lk	KN Labette	Big Hill Cr	F	13.1	867.5	858.0	1,520	1,240	PL 87-874.
			F	27.2	858.0	814.0	1,240	70	70
Birch Lk	OK Osage	Birch Cr	FMR	39.0	774.0	750.5	2,340	1,140	PL 87-874.
			F	15.8	750.5	730.0	1,140	384	HD572-87-2.
Blue Mountain Lk	AR Yell, Logan	Pettit Jean R	FMCR	233.3	419.0	384.0	11,000	2,910	PL 87-874.
Broken Bow Lk	OK McCurtain	Mountain Fk R	F	450.2	627.5	599.5	18,000	14,200	PA 75-761.
			F	469.8	599.5	559.5	14,200	9,200	PL 85-500.
Bull Shoals Lk	AR Baxter, Marion, Boone.	White R	FRPMAC	2,360.0	695.0	654.0	71,240	45,440	PL 77-228.
			F	1,003.0	654.0	628.5	45,440	33,800	
Canton Lk	MO Ozark, Taney	N Canadian R	PF	285.8	1,638.0	1,615.4	15,710	7,910	PL 75-761.
			F	97.2	1,596.5	1,596.5	7,910	2,710	HD56-75-3.
Canyon Lk	TX Comal	Guadalupe R	FMI	346.4	934.0	909.0	12,890	8,240	PL 79-14.
			F	366.4	909.0	75.0	8,240	0	
Cleanwater Lk	MO Reynolds, Wayne	Black R	M	391.8	567.0	494.0	10,400	1,630	PL 75-761.
Cochiti Lk	NM Sandoval, Santa Fe, Los Alamos.	Rio Grande	F	545.0	5,460.5	5,356.6	9,361	1,200	PL 86-645.
			FRC	43.0	5,356.6	5,330.0	1,200	0	
Conchas Lk	NM San Miguel	Candian R	F	198.8	4,218.0	4,201.0	13,664	9,692	HD 308-74.
			F	259.6	4,201.0	4,155.0	9,692	3,000	
Copan Lk	OK Washington	L Caney R	FI	184.3	732.0	710.0	13,380	4,850	PL 87-874.
			F	42.8	710.0	687.5	4,850	110	HD563-87-2.
Council Grove Lk	KS Chautauqua	Neosho R	FMCA	63.8	1,289.0	1,274.0	5,400	3,230	PL 81-516.
			F	48.5	1,274.0	1,240.0	3,230	42	
DeQueen Lk	AR Sevier	Rolling Fork R	FMAR	101.3	473.5	437.0	4,050	1,680	PL 85-500.
			F	25.5	437.0	415.0	1,680	710	
Dierks Lk	AR Sevier, Howard	Saline R	FMCRQ	67.1	557.5	528.0	2,970	1,360	PL 85-500.
			F	15.1	528.0	512.0	1,360	810	
Eldorado Lk	KS Butler	Walnut R	FMCR	79.2	1,347.5	1,339.0	10,740	8,000	PL 89-298.
			F	154.0	1,339.0	1,296.0	8,000	420	HD232-89-1.
Elk City Lk	KS Montgomery	Elk R	FMAR	239.5	825.0	796.0	13,150	4,450	HD440-76-1.
			F	44.8	796.0	764.0	4,450	64	
Eufaula Lk	OK McIntosh, Pittsburg, Haskell.	Candian R	FMA	1,510.9	597.0	585.0	147,960	105,480	PL 79-525.
			F	1,463.0	585.0	565.0	105,480	46,120	
Fall River Lk	KS Greenwood	Fall R	FNPM	234.5	948.5	948.5	10,400	2,350	HD440-76-1.
			F	15.0	948.5	940.0	2,350	1,170	

APPENDIX E TO § 222.5—LIST OF PROJECTS—Continued

Project name ¹	State/county	Stream ¹	Project purpose ²	Storage 1,000 AF	Elev limits feet M.S.L.		Area in acres		Auth legis ³
					Upper	Lower	Upper	Lower	
Fort Gibson Lk	OK Wagoner	Neosho (Grand) R	F	919.2	582.0	554.0	51,000	19,900	FEC 1941.
Fort Supply Lk	OK Woodward	Wolf Cr	FP	53.9	554.0	551.0	19,100	16,950	RHA 1946.
Galisteo Dam	NM Santa Fe	Galisteo Cr	FM	86.8	2,028.0	2,004.0	5,690	1,820	PL 74-738.
Georgetown Lk	TX Williamson	N.F.-San Gabriel R	F	13.9	2,004.0	1,988.0	1,820	0	0
			F	79.4	5,608.0	5,496.0	2,060	0	PL 86-645.
			F	87.6	834.0	791.0	3,220	1,310	PL 87-874.
Gillham Lk	AR Howard, Polk	Cossatot R	MC	29.2	791.0	699.0	1,310	0	HD 591-82-2.
			F	188.7	569.0	502.0	4,680	1,370	PL 85-500.
Granger Lk	TX Williamson	San Gabriel R	F	29.3	502.0	464.5	1,370	310	PL 87-874.
			F	162.2	528.0	504.0	11,040	4,400	0
Grapevine Lk	TX Denton, Tarrant	Denton Cr	M	37.9	504.0	440.0	4,400	0	PL 87-874.
			F	243.1	560.0	535.0	12,710	7,280	HD103-77-1.
Great Salt Plains Lk	OK Alfalfa	Salt Fk	M	154.3	535.0	451.0	7,380	41	0
			F	240.0	1,138.5	1,125.0	27,730	8,693	PL 74-738.
Greens Ferry Lk	AR Cleburne, Van Buren	Little Red R	FC	31.4	1,125.0	1,115.0	8,690	0	0
			F	934.0	487.0	461.0	40,480	31,460	PL 75-761.
Heyburn Lk	OK Creek	Polecat Cr	FP	716.5	461.0	435.0	31,460	23,740	PL 83-780.
			F	48.4	784.0	761.5	3,700	917	PL 79-526.
			FM	3.8	761.5	55.5	917	394	0
Hords Cr Lk	TX Coleman	Hords Cr	F	16.7	1,920.0	1,900.0	1,260	510	PL 77-228.
			M	5.8	1,900.0	1,848.0	510	0	0
Hugo Lk	OK Choctaw	Kiamichi R	M	809.1	437.5	404.5	34,490	13,250	PL 79-526.
			F	127.2	404.5	390.0	13,250	4,500	0
Hulah Lk	OK Osage	Caney R	F	257.9	765.0	733.0	13,000	3,570	PL 74-738.
			F	31.1	733.0	710.0	3,570	0	PL 84-843.
Jemez Canyon Dam	NM Sandoval	Jemez R	F	73.0	5,232.0	5,196.1	2,877	1,370	PL 80-858.
			F	1,238.0	536.0	522.0	10,940	7,470	PL 81-516.
Joe Pool Lk	TX Dalla, Ellis, Tarrant	Mountain Cr	M	176.9	522.0	456.0	7,470	10	PL 89-298.
John Martin Res	CO Bent	Arkansas R	F	270.3	3,870.0	3,851.0	17,630	11,655	PL 74-738.
			F	350.9	3,851.0	0.0	11,655	0	0
John Redmond Dam & Res	KS Coffee	Neosho R	F	559.0	1,068.0	1,039.0	31,700	9,300	PL 81-516.
			F	70.8	1,039.0	1,020.0	9,300	108	0
Kaw Lk	OK Kay, Osage	Arkansas R	F	919.4	1,044.5	1,010.0	38,020	17,040	PL 87-874.
			F	343.5	1,010.0	978.0	17,040	5,590	0
Keystone Lk	OK Tulsa	Arkansas R	F	1,180.0	754.0	723.0	54,300	23,600	PL 81-516.
			F	296.7	723.0	706.0	23,600	13,300	0
L&D 01, Norrell	AR Arkansas	Arkansas Post Canal	N	0.0	142.0	140	140	140	HD 758-79, RHA 1946.
L&D 02, Wilbur D. Mills Dam	AR Desha, Arkansas	Arkansas R	N	18.7	162.3	160.5	10,700	9,400	HD 758-79, RHA 1946.
L&D 03	AR Jefferson, Lincoln	Arkansas R	N	8.3	182.3	180.0	3,750	3,180	HD 758-79, RHA 1946.
L&D 04	AR Jefferson	Arkansas R	N	12.9	196.3	194.0	5,820	5,200	HD 758-79, RHA 1946.
L&D 05	AR Jefferson	Arkansas R	N	14.4	213.3	211.0	6,900	5,500	HD 758-79, RHA 1946.
L&D 06, David D. Terry	AR Pulaski	Arkansas R	N	9.6	231.3	229.0	4,830	4,130	HD 758-79, RHA 1946.
L&D 07, Murray	AR Pulaski	Arkansas R	N	24.7	249.7	247.0	10,350	8,100	RHA 1946.

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L&D 08, Toad Suck Ferry	AR Faulkner, Perry	Arkansas R	N	8.7	265.3	263.0	4,130	3,600	RHA 1946.
L&D 09, Arthur V. Ormond L&D, W. Rockefeller Lk	AR Conway	Arkansas R	N	15.8	287.0	284.0	5,660	4,910	HD 758-79.
L&D 10, Lk Dardanelle	AR Pope Yell	Arkansas R	NP	72.3	388.2	336.0	34,700	31,140	HD 758-79, RHA 1946.
L&D 11, Ozark-Jetta Taylor	AR Franklin	Arkansas	NPR	25.3	372.5	370.0	11,100	8,800	RHA 1946, HD 758-79.
L&D 13, James W. Trimble	AR Sebastian, Crawford	Arkansas R	N	18.1	392.0	389.0	6,820	5,200	RHA 1946.
L&D 14, W. D. Mayo	OK Sequoyah, Leflore	Arkansas R	N	0.0	413.0	0.0	1,600	0	PL 79-525.
L&D 15, Robert S. Kerr Res	OK Leflore, Sequoyah	Arkansas R	NP	84.7	460.0	458.0	40,760	43,800	PL 79-525.
L&D 16, Webbers Falls Res	OK Muskogee	Arkansas R	NP	32.4	490.0	487.0	10,900	9,300	PL 79-525.
L&D 17, Chouteau	OK Wagoner	Verdigris R	N	0.0	511.0	511.0	2,270	2,270	PL 79-525, HD 758-79-2.
L&D 18, Newt Graham	OK Wagoner	Verdigris R	N	0.0	532.0	532.0	1,490	1,490	PL 97-525.
Lake O' The Pines	TX Marion	Cypress Cr	F	579.5	249.5	228.5	38,200	18,700	PL 79-526.
Lavon Lk	TX Collin	East Fork, Trinity R	M	250.0	228.5	201.0	18,700	1,100	
Lewisville Lk Garza-Little Elm Dam	TX Denton	Elm Fork Trinity R	F	275.6	503.5	492.0	29,450	21,400	HD 533-78-2.
Marion Lk	KS Marion	Cottonwood R	F	380.0	492.0	433.0	21,400	2,87	
Millwood Lk	AR Little R Hempstead	Little R	F	532.0	532.0	515.0	39,060	23,280	HD 403-77-1.
Navarro Mills Lk	TX Navarro Hill	Richland Cr	M	436.0	515.0	433.0	23,280	12	
Nimrod Lk	AR Perry, Yell	Fourche La Fave R	F	60.2	1,358.5	1,320.0	6,200	6,200	PL 81-516.
Norfolk Lk	AR Baxter, Fulton	North Fork R	F	83.3	1,350.5	1,320.0	6,200	170	
North Fork Lk	MO Ozark	N.F. San Gabriel R	F	1,650.0	287.0	259.2	95,200	29,200	PL 79-526.
O. C. Fisher Lk	TX Tom Green	N. Concho R	F	153.3	259.2	252.0	29,200	13,100	HD 785-79.
Oologah Lk	OK Rogers	Verdigris R	F	143.2	443.0	424.5	11,700	5,070	HD 498-83-2.
Optima Lk	OK Texas	N. Candian R	FMN	53.2	424.5	375.3	5,070	0	
Pat Mayse Lk	TX Lamar	Sanders Cr	F	307.0	373.0	342.0	18,300	3,550	FCA 1938.
Pine Cr	OK McCurtain	Little R	F	731.8	580.0	552.0	30,700	21,990	PL 75-761.
Proctor Lk	TX Comanche	Leon R	FMAC	707.0	552.0	510.0	21,990	12,320	FCA 1941
Sam Rayburn Res	TX Jasper, San Augustine, Angelina	Angelina R	F	29.2	791.0	699.0	3,220	1,310	PL 87-874.
Santa Rosa	NM Guadalupe	Pecos R	F	277.2	1,938.5	1,908.0	12,700	5,440	HD 591-82-2.
Sardis	OK Pushmataha	Jackfork Cr	F	80.4	1,908.0	1,836.0	5,440	3	
Somerville Lk	TX Washington, Lee, Burleson	Yegua Cr	F	965.6	661.0	638.0	56,800	29,460	PL 75-761.
			F	544.1	638.0	592.0	29,460	1,120	
			F	100.5	2,779.0	2,763.5	7,640	5,340	PL 74-738.
			F	117.7	2,763.5	2,726.0	5,340	1,335	
			F	64.6	460.5	451.0	7,680	5,993	PL 87-874.
			F	119.9	451.0	415.0	5,983	996	HD 88-71.
			F	388.1	480.0	443.5	17,230	4,980	PL 85-500.
			F	77.6	443.5	414.0	4,980	700	HD 170-85-1
			F	310.1	1,197.0	1,162.0	14,010	4,610	PL 83-780, HD 535-81-2.
			F	1,099.4	173.0	164.4	142,700	114,500	HD 981-76-1.
			F	1,446.2	164.4	149.0	114,500	74,040	
			F	340.0	4,746.2	4,776.5	10,740	3,823	PL 83-780.
			F	160.0	4,776.5	4,746.2	7,115	3,823	
			F	122.6	607.0	599.0	16,960	13,610	HD 602-79-2.
			F	274.2	599.0	542.0	13,610	40	
			F	337.7	258.0	238.0	24,400	11,460	PL 83-780.

APPENDIX E TO § 222.5—LIST OF PROJECTS—Continued

Project name ¹	State/county	Stream ¹	Project purpose ²	Storage 1,000 AF	Elev limits feet M.S.L.		Area in acres		Auth legis ³
					Upper	Lower	Upper	Lower	
Statook	OK Osage	Hominy Cr	M	143.9	238.0	200.0	11,460	0	HD 563-87.
Stillhouse H. Lk	TX Bell	Lampasas R	F FMARC	178.0 311.6	729.0 714.0	714.0 657.0	13,690 10,190	10,190 6,430	PL 83-780.
Table Rock Lk	MO Taney, Stone, Barry	White R	M	390.6	666.0	622.0	11,830	0	PL 77-228.
Tenkiller Ferry Lk	AR Carroll, Boone	Illinois R	FP	204.9	622.0	498.0	6,430	43,070	FCA 1938.
Texoma Lk, Denison Dam	OK Cherokee, Sequoyah	Red R	FP	760.0	931.0	915.0	52,250	27,300	RHA 1946.
	TX Marshall		FP	1,181.50	915.0	881.0	43,070	12,900	PL 75-761.
	OK Bryan, Cook, Gray-son		F	371.0	632.0	594.5	20,800	7,370	
	KS Woodson	Verdigris R	FPM	2,669.0	640.0	617.0	144,000	88,000	
	CO Las Animas	Purgatorie R	F	1,612.0	617.0	590.0	88,000	41,000	
	NM Chaves	Rio Hondo R	FMA	179.8	931.0	901.5	11,740	2,660	HD 440-76-1.
	TX McLennan	Bosque R	F	10.7	901.5	896.7	2,660	1,720	PL 85-500.
	OK Jefferson	Beaver Cr	FI	58.0	6,260.0	6,230.0	2,107	1,453	
	TX Hill, Bosquel	Brazos R	F	20.0	6,230.0	0.0	1,453	0	PL 83-780.
	OK Leflore	Pouteau R	F	150.0	4,032.0	3,945.0	4,806	7,270	PL 83-780.
	TX Bowie, Cass	Sulphur R	F	3.3	500.0	455.0	19,440	0	HD 535-81-2.
			M	100.8	455.0	370.0	7,240	0	PL 88-253.
			F	140.4	962.5	951.4	15,000	10,100	
			FMCAR	199.7	951.4	910.0	10,100	830	PL 77-228.
			F	1,372.0	571.0	533.0	49,820	23,560	HD 390-76-1.
			PM	381.9	533.0	425.0	23,560	475	
			F	387.0	502.5	474.6	23,070	5,000	PL 75-761.
			F	2,363.7	259.5	220.0	119,700	20,300	PL 79-526.
			FM	142.7	220.0	180.0	20,300	0	

¹ Res—Reservoir; Lk—Lake; Div—Divers; Cr—Creek; Fk—Fork; L&D—Lock & Dam; GIWW—Gulf Intercoastal Waterway; FG—Floodgate; CS—Control Structure; DS—Drainage Structure; PS—Pump Station.
² F—Flood Control; N—Navigation; P—Hydropower; I—Irrigation; M—Municipal and/or Industrial Water/Supply; C—Fish and Wildlife Conservation; R—Recreation; A—Low Flow Augmentation or Pollution Abatement; Q—Quality or Silt Control.
³ PL—Public Law; HD—House Document; RHA—River & Harbor Act; PW—Public Works; FCA—Flood Control Act; WSA—Water Supply Act.

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