

Civil Works Breakdown Structure Definitions (30 November 1993 draft)

A----- Reconnaissance Report (Recon): Preliminary assessment of the Federal interest and economic justification used as a basis for proceeding to the Feasibility Phase.

AA---- Recon-Engineering Analysis/Report: A minimal analysis sufficient to develop preliminary alternatives, define engineering efforts required for the Feasibility Phase, and develop preliminary cost estimates and schedules.

AAA--- Recon-Surveys and Mapping, Except for Real Estate: Information for the initial assessment of the potential project area, developed using available information and limited field information, the collection of existing real estate plats, surveys, USGS maps and aerial photography that includes the project area.

AAB--- Recon-Hydrology and Hydraulics Studies/Report: An initial effort to estimate the existing hydraulic parameters for use in estimating damages and potential project benefits. Available material is used to the maximum extent possible. This includes flood insurance studies, state publications, and previous Corps studies. Hydrologic and/or hydraulic modeling may be performed if time and funds are available. Includes initial development of one or more alternatives to the extent required for cost estimates.

AAC--- Recon-Geotechnical Studies Report: The preliminary alternative geotechnical design is based on experience, jobs by others, standard sections, and project specific engineering studies of a very limited nature using available basic data related to land form, geology, soils and groundwater data obtained from state and local governments, highway departments, Soil Conservation Service, Federal Highway Commissions, and Corps of Engineers, including laboratories at WES and CEERL.

AAD--- Recon-Preliminary Engineering and Design Analysis Report: Alternative designs and drawings based on previous jobs, judgment and/or very preliminary analyses.

AAE--- Recon-All Other Engineering Documents: All other appropriate engineering documents determined to be needed on a case by case basis.

AB---- Recon-Socioeconomic Analysis/Report: A report prepared in accordance with ER 1105-2-100 containing an analysis of a water resource problem, including the social and demographic characteristics of the community in which the problem occurs. The report includes a preliminary viable solution to the problem.

ABA--- Recon-Economic Studies/Report: Preliminary determination of the with and without project average annual damages and benefits for each of the alternatives.

ABB--- Recon-Social Studies/Report: A report using available information that determines the general socio-economic conditions of the study area.

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ABC--- *Recon-Institutional Studies/Report:* A preliminary investigation to assess the legal and financial capabilities of the potential local sponsor.

ABD--- *Recon-All Other Socioeconomic Analysis Documents:* All other appropriate socioeconomic documents determined to be needed on a case by case basis.

AC---- *Recon-Real Estate Analysis/Documents:* All written real estate memoranda, opinions, reports and other documents as required on a project-by-project basis.

ACA--- *Recon-Real Estate Section/Report:* Narrative discussion of the types of ownership, estimated acreage, estates, potential P.L. 91-646 payments, facility relocations, initial Real Estate Cost Estimate and any other pertinent data regarding the alternative plans at issue.

ACB--- *Recon-Rights of Entry:* Documents which show evidence of permission from a landowner to temporarily use his/her land for a specified time and purpose. Obtained for purposes of environmental investigation, cultural assessments, core sampling, surveys, explorations, etc. Can be obtained by the Government or a contractor.

ACC--- *Recon-All Other Real Estate Analyses/Documents:* All other appropriate real estate documents determined to be needed on a case by case basis including, but not limited to, preliminary title reports, plat maps, county recorder's data, etc.

AD---- *Recon-Environmental Studies/Report, Except for USF&WL:* A preliminary analysis of expected impacts on the environmental resources by the likely alternatives and the potential for mitigation. Also identifies the necessity for environmental clearances and certifications and the level of NEPA documentation (EIS or SEIS) required, per 1105-2-100 and ER 200-2-2.

ADA--- *Recon-Environmental Assessment, Except for Fish & Wildlife and Hazardous, Toxic and Radiological Wastes (HTRW) Report:* A report that describes the preliminary determination of the with and without project resource conditions, and impact of alternatives.

ADB--- *Recon-All Other Environmental Documents:* All other appropriate environmental documents determined to be needed on a case by case basis.

AE---- *Recon-Fish and Wildlife Planning Aid Report:* A report developed by the US Fish & Wildlife Service, contains the identification of endangered species, recommendations for mitigation, and conformation of the potential project impacts.

AF---- *Recon-HTRW Assessment/Report:* A summary of the initial site assessments addressing the existence of, or potential for, HTRW contamination on lands (including structures and submerged lands) in the study area, or external HTRW contamination that could impact, or be impacted by the proposed projects. The report is generated from interviews, literature and records review, and an on-site inspection.

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AG---- *Recon-Cultural Resources Analysis/Report:* A literature and records review, completed with an on-site inspection or pedestrian overview. Concurrent with the study and coordination with the State Historic Preservation Officer (SHPO), the Commander shall notify the Secretary of the Interior (through the Departmental Consulting Archeologist) of the Reconnaissance Phase study and the historic preservation activities, and will include the potential for additional work.

AGA--- Recon-Literature and Records Review Documents: Searches of National Register of Historic Places, State archeologist site files, and prior cultural resource investigations reports and records within the planning area. May also include interviews with persons knowledgeable about the area, contact with Native American groups, field checks of site locations, and examination of old photographs, maps and other documents.

AGB--- Recon-Cultural Resources Impact Analysis: Evaluation of findings of literature and records review, presenting the knowledge of and/or the potential for historic properties which could be affected by the proposed development, including, if determined necessary, recommendations for sample and/or intensive historic resource surveys of the planning area. Findings statement to be included in the Reconnaissance Phase Report.

AGC--- Recon-All Other Cultural Resources Documents: All other appropriate cultural resource documents determined to be needed on a case by case basis.

AH---- *Recon-Cost Estimates:* All deliverables related to preparation of life cycle project cost estimates needed to support the Reconnaissance Report. These estimates will include both Federal and non Federal costs for construction, real estate, engineering and design, construction management, HTRW investigations and remediation and Operations, Maintenance, Replacement and Repair and Rehabilitation of potential projects. Comparative cost estimates used for alternative and incremental analyses are also included. In addition, this product will include the hired labor and contract costs of preparing the Reconnaissance and Feasibility Studies.

AHA--- Recon- Study Cost Estimates: All deliverables related to the preparation of the cost estimate for all work required for the Reconnaissance Study, Feasibility Phase costs for the Feasibility Study Cost Sharing Agreement (FSCA), and the preparation of the Initial Project Management Plan (IPMP).

AHB--- Recon-Feasibility Study Cost Estimate: All deliverables related to the preparation of the cost estimate for all work required to conduct the Feasibility Study. It will include both Federal and non Federal costs.

AHC--- Recon-Planning, Engr. and Design (PE&D) Cost Estimate: A very preliminary estimate for all deliverables related to the preparation of the PE&D cost estimate, for the Federal cost for all engineering and design from the date of the Division Engineers Notice to the award of the first Federal construction contract.

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AHD--- Recon-Project Cost Estimate: All deliverables related to preparation of project cost estimates needed to support the Reconnaissance Report. These estimates will include both Federal and non Federal costs for construction, real estate, engineering and design, construction management, HTRW investigations and remediation of potential projects. Comparative cost estimates used for alternative and incremental analyses are also included.

AHE--- Recon-Operation, Maintenance, Replacement, Repair and Rehabilitation (OMRR&R) Cost Estimate: All deliverables related to the preparation of the OMRR&R cost estimates. Comparative estimates of the life cycle project costs used for alternative and incremental analyses are included.

AHF--- Recon-All Other Cost Estimates: All other appropriate cost estimate documents determined to be needed on a case by case basis.

AI--- ***Recon-Public Involvement Documents:*** Notices of meetings, meeting summaries, copies of pertinent letters and other items appropriate to public involvement.

AIA--- Recon-Notice of Public Meeting(s): Letters, notices, newspaper articles, radio announcements, etc., to inform the community of public meetings.

AIB--- Recon-Minutes of Public Meeting(s): Verbal record(s) and written transcript(s) of a public meeting.

AIC--- Recon-Public Comments Report: A brief summary of comments of all of the comments received during and after the public meetings and workshops.

AID--- Recon-Newsletters: Periodic publications distributed to interested parties to inform the public as to the study progress.

AIE--- Recon-All Other Public Involvement Documents: All other appropriate public involvement documents determined to be needed on a case by case basis.

AJ--- ***Recon-Plan Formulation and Evaluation Report:*** Intermediate report during the preparation of the Reconnaissance Report that summarizes the formulation and evaluation of alternatives.

AK--- ***Recon-Report Documentation:*** The initial assembly of the Reconnaissance Report to be made ready for internal, potential local sponsor, and higher authority review, up to but not including, Washington Level Review.

AKA--- Recon-Report Preparation: Final draft of the Reconnaissance Report containing all of the required report elements.

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AKB--- Recon-In-house Review Comments on Recon Report: District in-house comments on the draft Reconnaissance Report.

AKC--- Recon-Local Sponsors Review Comments on Recon Report: Potential local sponsor comments on the draft Reconnaissance Report.

AKD--- Recon-Local Sponsor's Letter of Intent to Cost Share Feasibility Study:
Letter of intent from the potential local sponsor expressing their willingness to cost share in the Feasibility Study and possible project construction, signed by a duly empowered local sponsor official.

AL--- *Recon-Certified Reconnaissance Report:* A report on the Reconnaissance Phase of the study prepared following the guidance in ER 1105-2-100.

ALA--- Recon-Review Conference (RRC) Documents: Documents to arrange and record the meeting of District, Major Subordinate Command (MSC), and Washington level decision makers, and the potential local sponsor to discuss the findings and make recommendations.

ALB--- Recon-Public Review Comments on Recon Report: A collection of letters from appropriate state, Federal and other sources of public involvement.

ALC--- Recon-MSC/Washington Level Review Comments (WLRC) Related to the Recon Report: Written technical policy review comments that must be addressed by the District.

ALD--- Recon-Report Certification Memo: A letter written from HQUSACE certifying that the Reconnaissance Report is in accordance with current policy.

ALE--- Recon-Final Recon Report: Final complete Reconnaissance Report approved by the MSC.

ALF--- Recon-All Other Recon Report Documents: All other appropriate documents as determined on a case by case basis.

AM--- *Recon-All Other Studies/Reports (Specify):* All other appropriate study/report documents determined to be needed on a case by case basis.

AN--- *Recon-Damages Assessed AE Contractors Documents:* The documents that determine and assess the liability for inadequate AE efforts.

AO--- *Recon-Management Documents:* All of the documents related to the management of the Reconnaissance Report, including AE contract administration and in-house control.

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AOA--- Recon-AE Contract Documents: The negotiation, award and contract administration documents for the utilization of AE contractors to complete, or assist in the completion of, other Reconnaissance Phase products, as determined on a case-by-case basis.

AOB--- Recon-Upward Reports: Status Reports and similar documents.

AOC--- Recon-Fact Sheets: Informal project summaries in response to requests for information.

AOD--- Recon-Study Funds Control Documents: Internal funds control documents for the allocation and management of the Reconnaissance Study.

AOE--- Recon-Coordination Documents: Status reports, coordination with engineering, real estate, planning, operations, construction, plus local sponsor. The final deliverable is the technical portion of the Reconnaissance Report.

AOF--- Recon-Minutes of Technical Review Conference (TRC): Minutes of Technical Review Conference for the Reconnaissance Study.

AOG--- Recon-Work Directives: All documents related to the receipt, distribution, monitoring and management of project funding including Funding Authorization Documents (FAD) and Work Allowances.

AOH--- Recon-All Other Management Documents: All other appropriate management documents determined to be needed on a case by case basis.

B----- RESERVED FOR FUTURE HQUSACE USE

C----- RESERVED FOR FUTURE HQUSACE USE

D----- RESERVED FOR FUTURE HQUSACE USE

E----- RESERVED FOR FUTURE HQUSACE USE

F----- RESERVED FOR FUTURE HQUSACE USE

G----- RESERVED FOR FUTURE HQUSACE USE

H----- *Feasibility Study Cost Sharing Agreement (FCSA):* A legal, binding agreement defining the scope, schedule and cost for the Feasibility Study, and the Federal and local sponsor relative roles and responsibilities during the study. The FCSA includes the approved Initial Project Management Plan (IPMP).

HA---- FCSA-Preliminary Assessment of the Financial Capability of the potential Local Sponsor: A preliminary assessment of the potential sponsor's capability to pay their share of the project costs and a schedule of their sources of funds, as discussed generally in Section XIV of ER 1105-2-100. Initial determination that potential sponsor has adequate credit line to acquire all

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necessary Lands, Easements, Rights-of-way, Relocations and Disposal areas (LERRD's), e.g. quick-take authority, manpower, resources, etc..

HB---- FCSA-Initial Determination of Legal /Technical Capability of the Potential Local Sponsor: The results of an inquiry to learn what authority the local sponsor has to acquire real estate by condemnation or purchase. Verification of the potential local sponsor's authority to sign the FCSA and the professional capability of their staff or contractor to obtain LERRD's, e.g. quick-take authority, manpower, resources, etc..

HC---- FCSA-Final FCSA: The version of the FCSA resulting from negotiations with the local sponsor. Includes timeline requirements to obtain LERRD's and estimated real estate labor costs during Feasibility Study phase, and will reflect any in-kind services to be provided by the local sponsor.

HCA--- FCSA-MS/Washington Level Review: Written policy and technical comments on the FCSA from MSC and WLRC.

HCB--- FCSA-FCSA Certification: Letter from HQUSACE signifying that the FCSA complies with policy.

HCC--- FCSA-Signed/Executed FCSA: The final version of the FCSA, as approved by all review authorities and signed by representatives of the Federal government and a duly empowered representative of the local sponsor.

HCD--- FCSA-All Other FCSA Documents: All other appropriate FCSA documents determined to be needed on a case by case basis.

HD---- FCSA-Updates of FCSA: During the life of the project, revisions to the FCSA may have to be negotiated and executed in order to reflect a changing project scope, revised estimates, or changes in the relative roles and responsibilities of the Federal government and the local sponsor.

I----- ***Initial Project Management Plan (IPMP):*** A coordinated management plan that identifies the tasks, scope, costs and schedule and responsibilities of all parties involved in project development for the execution of the Feasibility Study, following the guidance shown in ER 1105-2-100 and ER 5-7-1 (FR).

IA---- ***IPMP-Final IPMP:*** The final version of the IPMP that has received all necessary approvals from the Local Sponsor and higher authority.

IAA--- IPMP-Scope of Work: A narrative description of the scope of the Feasibility Report. Used as a basis for the WBS. See ER-5-7-1(FR), and Appendix 2-A.

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IAB--- IPMP-Work Breakdown Structure (WBS): The scope of the Feasibility Report is broken down in accordance with the standardized Work Breakdown elements to a level of detail that is appropriate to the size and complexity of the potential project, and in accordance with all current Project Management regulations. See ER-5-7-1(FR), and Appendix 2-A.

IAC--- IPMP-Organizational Breakdown Structure (OBS): A tabular or graphic representation of the organization of the District or field office, indicating lines of authority and communication. The lowest level of the OBS should be equal to the lowest anticipated level of management. See ER-5-7-1(FR), and Appendix 2-A.

IAD--- IPMP-Resource Allocation Matrix (RAM): The RAM is the intersection of the WBS and the OBS, where a matrix is formed that assigns every lowest level WBS element to the lowest level OBS element. See ER-5-7-1(FR), and Appendix 2-A.

IAE--- IPMP-Project Schedule: Using an automated Network Analysis System (NAS), the schedule takes the lowest level WBS elements and assigns durations, costs, and logic. The minimum time that it takes to execute each of the WBS elements that are on the "critical path" yields the minimum project duration. See ER-5-7-1(FR), and Appendix 2-A.

IAF--- IPMP-Project Budgets and Cost Estimates: With the estimated costs for each of the WBS elements loaded into the NAS, the NAS program will yield a total Project Budget, cost curves and other budget information. This information is the basis for the Feasibility Report funding requirements. See ER-5-7-1(FR), Appendix 2-A.

IAG--- IPMP-Resource Allocation Plan (RAP): A report that outlines the resources that are required for the completion of the Feasibility Report, sorted by District, local sponsor or others. The resources that are planned should include labor, technical support, materials and supplies, computers and any special software, training, etc. See ER-5-7-1(FR), Appendix 2-A.

IAH--- IPMP-Project Cooperation Plan (PCP): The PCP documents the supporting non-Federal activities and documents that satisfy IPMP requirements. See ER-5-7-1(FR), Appendix 2-A.

IAI--- IPMP-Project Quality Management (PQM) Plan: A PQM plan that identifies the quality related codes, standards and regulations applicable to the project. See ER-5-7-1(FR), Appendix 2-A.

IAJ--- IPMP-Management and Control Plan: Description of the methods used to manage and control cost, schedule and technical performance. See ER-5-7-1(FR), Appendix 2-A.

IAK--- IPMP-Reporting Requirements Plan: Report that outlines all of the reporting, informal and formal, internal and external, that will be used for the Feasibility Report. See ER-5-7-1(FR), Appendix 2-A.

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IAL--- IPMP-Change Control Plan: Document that outlines the procedures for processing changes to the scope, schedule or cost of the Feasibility Report, maintaining the baseline, reconciling budgets and managing contingencies. See ER-5-7-1(FR), Appendix 2-A.

IAM--- IPMP Appendix: Additional backup material to support the IPMP, such as technical data, supporting data, detailed cost estimates and example reports. See ER-5-7-1(FR), Appendix 2-A.

IAN--- IPMP Coordination Document: All parties have to sign the IPMP to show that all parts of the plan are in agreement and will be supported by all team members. This coordination is documented by a sign off approval sheet that is made part of the IPMP. See ER-5-7-1(FR), Appendix 2-A.

IAO--- IPMP-All Other IPMP Documents: All other appropriate IPMP documents determined to be needed on a case by case basis.

IB---- *IPMP-Updates of IPMP:* During the life of the project, the IPMP may have to be revised in order to reflect a changing project scope, revised project cost estimates, schedule, or changes in the relative roles and responsibilities of the Federal government and the local sponsor.

J----- *Feasibility Report (Feas):* A report that follows the guidance in ER 1105-2-100 to present recommendations for Federal action. These recommendations are passed to Congress to support a project authorization decision.

JA---- *Feas-Engineering Appendix:* The Engineering Analysis/Report that supports the alternative analysis and the recommended plan as shown in the Feasibility Report. The Engineering Analysis/Report is at the level of detail necessary to develop a defensible baseline cost estimate that addresses all pertinent cost factors with adequate contingency factors.

JAA--- *Feas-Surveys and Mapping, Except for Real Estate:* Project map information, as well as additional field information as required. Topographic, real estate and other maps are obtained and/or prepared and made available to the project designers and plan formulators. Sources of the mapping are the USGS, State and local government planning agencies, as well as the potential local sponsor, or any other reliable source.

JAB--- *Feas-Hydrology and Hydraulic Studies/Report:* A report that details the hydraulic and hydrologic planning of the H&H portion of Feasibility Report; information requests (especially survey data); extensive hydrologic modeling, including development of input data, calibration and verification; establishment of existing condition profiles for various hypothetical flood events; model adjustment for future without project conditions; alternative screening; detailed with project hydrologic analyses of several alternatives; risk and uncertainty analysis (as applicable); hydraulic design of alternatives; refinement of with project hydrologic engineering

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analysis; sediment assessment; activity estimate for PE&D phase; Hydraulics and Hydrology Appendix.

JAC--- *Feas-Geotechnical Studies Report:* A project wide analysis of a general level of detail, based on geologic and soil information obtained through explorations and selected laboratory testing. Engineering studies, to include site selection, stability, settlement, under seepage, foundation design, material utilization, dewatering and diversion, and construction sequence all accomplished to a level of detail to meet the requirements of a baseline cost estimate.

JAD--- *Feas-Site Development Analysis/Report:* A report generally required only on major projects where the site cannot be selected based on an initial field inspection or evaluation of existing data, but will require additional field investigations and possibly more detailed hydraulic analysis.

JAE--- *Feas-Engineering and Design Analysis Report with Preliminary Drawings:* All design and drawings completed from analyses prepared to a level of detail that will insure the integrity of the structure and/or system and meet the requirements of the baseline cost estimate.

JAF--- *Feas-Model Studies:* Mathematical or physical models of the project area that are used to develop design parameters and other criteria. This data is utilized to perform detailed hydraulic/hydrology analyses and designs.

JAG--- *Feas-All Other Engineering Documents:* All other appropriate engineering documents determined to be needed on a case by case basis.

JB--- *Feas-Socioeconomic Studies/Report:* A report prepared in accordance with ER 1106-2-100 containing further analysis of the water resource problem, including the social and demographic characteristics of the community in which the problem occurs, and the most effective solution to that problem.

JBA--- *Feas-Economic Analysis/Report:* Preliminary determination of the with and without project average annual damages and benefits for each of the alternatives.

JBB--- *Feas-Social Studies/Report:* Using available information, supplemented with additional information obtained by and through the local sponsor, this report describes the general socio-economic conditions of the study area.

JBC--- *Feas-Institutional Studies/Report:* A complete and detailed report that outlines and documents the investigations that were performed to and their results that assessed the legal and financial capabilities of the local sponsor.

JBD--- *Feas-Ability to Pay Report:* An update and expanded version of the analysis that determined the local sponsor's eligibility to reduce their cost sharing responsibilities based local economic conditions.

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JBE--- *Feas-Financial Analysis Report:* Determination of the local sponsor's funding sources and capability to provide project cost sharing, updated from the Reconnaissance Report and based on the project alternatives and the recommended plan.

JBF--- *Feas-All Other Socioeconomic Analysis Documents:* All other appropriate socioeconomic documents determined to be needed on a case by case basis.

JC---- *Feas-Real Estate Analysis/Documents:* All written real estate memoranda, opinions, reports and other documents as required on a project-by-project basis.

JCA--- *Feas-Real Estate Supplement/Plan:* The portion of the Feasibility Report that outlines the minimum real estate requirement for a proposed project as required by ER 405-1-12, Draft Chapter 12. The Real Estate Supplement/Plan (RES/REP) contains a description of the area; the acreage and proposed estates, including non-standard estates, and reasons therefore; a discussion of any land owned by the Federal government, the Local Sponsor or any public entity; an estimate of the Public Law 91-646 relocations; the Baseline Cost Estimate for Real Estate; a discussion of the Local Sponsor's ability to acquire Lands, Easements, Rights-of-Way, Relocations and Disposal area. (LERRD); a discussion of mineral activity, if any, and the attitude of the landowner; a detailed schedule of land acquisition; at a minimum a preliminary assessment of the facilities/utilities to be relocated; and any other relevant real estate information appropriate for the project.

JCB--- *Feas-Gross Appraisal/Report:* A detailed, supported appraisal of the collective real estate requirements and impact of the project, or selective portion thereof, including review and approval, as required by ER 405-1-12, (Chapter 4 and Draft Chapter 12) and policy guidance.

JCC--- *Feas-Preliminary Real Estate Acquisition Maps:* The initial set of maps and drawings that delineate the real estate acquisition lines based on technical design drawings developed during feasibility phase. Reflects the minimum real estate required for project purposes.

JCD--- *Feas-Physical Takings Analysis:* A written legal opinion as to whether flooding estimated to be induced by the construction, operation or maintenance of the proposed project will rise to the level of a taking of an interest in real property for which just compensation must be paid to the owner of the real property impacted by such induced flooding. The opinion describes the analysis of relevant information regarding the depth, frequency, duration, velocity and extent of such induced flooding, as well as relevant state and federal law, and presents a conclusion on the physical occupation taking issue.

JCE--- *Feas-Preliminary Attorney's Opinion of Compensability:* A preliminary legal opinion on whether a provision of a substitute facility is required under the Fifth Amendment as compensation for a facility/utility being acquired for a project. The opinion makes findings on whether the owner has a compensable interest, whether the owner has the legal duty to continue

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to maintain and operate the facility/utility, and whether that federal law requires the provision of a substitute facility/utility rather than a mere payment of the market value for the property acquired. The preliminary legal opinion differs from the final legal opinion only in its acceptance as fact of the owner's statement of its interest in the property, without a search of property records.

JCF--- *Feas-Rights of Entry:* Documents which evidence permission from a landowner to temporarily use his/her land for a specific time and purpose. Obtained for purposes of environmental investigations, cultural assessments, core sampling, surveys, exploration, etc. Can be obtained by the Government, Contractor, or the Local Sponsor.

JCG--- *Feas-All Other Real Estate Documents:* All other appropriate real estate documents determined to be needed on a case by case basis including, but not limited to, preliminary title reports, plat maps, county recorder's data, detailed land acquisition schedules, etc.

JD--- *Feas-Environmental Studies/Reports (EA, EIS, SEIS or FONSI, Except for USF&WL):* Full evaluation and documentation of the significance of the environmental impacts, in accordance with ER 1105-2-100 and ER 200-2-2. Documentation is coordinated with state and Federal environmental agencies and the public. If necessary, Water Quality Certification and/or Coastal Zone Consistency from the state(s) will also be included.

JDA--- *Feas-Minutes of Scoping Meetings:* Record of discussions with the public and resource agencies that define the environmental concerns related to the proposed action of the project alternatives and the recommended plan.

JDB--- *Feas-Environmental Assessment (EA) or Findings Of No Significant Impact (FONSI):* Documents required by the National Environmental Policy Act of 1969 (NEPA) that evaluate the impacts, shown in the form of an EA, and the conclusion of a Findings Of No Significant Impacts (FONSI) are expected. If a FONSI cannot be supported, then an EIS is required.

JDC--- *Feas-Environmental Impact Statement (EIS), or Supplemental Environmental Impact Statement (SEIS):* A document required by the National Environmental Policy Act of 1969 (NEPA) that provides a detailed evaluation of the significant impacts of a proposed action, presents a detailed alternative analysis, and proposes possible mitigation actions. If the scope of the project has changed, or if new significant environmental impacts are identified, the EIS will be revised in a Supplemental EIS (SEIS).

JDD--- *Feas-Coordination Documents with Other Agencies:* Letters, meeting records, etc. that indicate and describe the dialog between agencies regarding a proposed action.

JDE--- *Feas-Environmental Resource Inventory Report:* An inventory of the natural resources that are located within a defined geographical area in which a proposed action would occur. Includes a section on the needs and opportunities for improvement of natural resources within that area.

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JDF--- Feas-Mitigation Analysis Report: A detailed evaluation of possible actions that would offset unavoidable impacts associated with a proposed action.

JDG--- Feas-Endangered Species Report: Report evaluating the potential effects of an action on listed endangered /threatened species and proposed species and designated or critical habitat. Utilized by US Fish and Wildlife Service in their determination whether formal consultation or a conference is required.

JDH--- Feas-Section 404(b)(1) Analysis Report: A report required by the Clean Water Act which presents an analysis of water quality impact associated with the placement of fill or dredged material in the waters of the United States.

JDI--- Feas-401 State Water Quality Certification: Certification by the State that a proposed action will not result in a violation of state water quality criteria.

JDJ--- Feas-Record of Decision (ROD): A document required by NEPA in cases where an EIS is prepared that provides a history of actions taken to evaluate project impacts and describes all compliance actions that are to be taken. The ROD signifies compliance with NEPA.

JDK--- Feas-Section 103 Evaluation: A report required by the Marine Protection, Research, and Sanctuaries Act which evaluates the impacts associated with the transportation of dredged material to the ocean for purposes of disposal.

JDL--- Feas-Statement of Findings (SOF): A comprehensive summary of all environmental coordination and record of environmental compliance prepared in instances when an EIS is not required. In those cases when an EIS is prepared, the ROD replaces the SOF.

JDM--- Feas-Coastal Zone Management Consistency Determination: A determination by a State that a proposed action is consistent with the requirements of the State Coastal Zone Management Plan.

JDN--- Feas-All Other Environmental Documents: All other appropriate environmental documents determined to be needed on a case by case basis.

JE---- ***Feas-Fish and Wildlife Coordination Act Report:*** A detailed biological evaluation prepared by the US Fish and Wildlife Service detailing the impacts of a proposed action and alternative actions and providing recommendations for minimizing or mitigating any adverse impacts.

JF---- ***Feas-HTRW Studies/Report:*** A report summarizing the hazardous/toxic/radiological waste (HTRW) occurrences within and nearby the project area. It includes a determination of the nature and extent of contamination and a qualitative analysis of the impacts of any contamination in the absence of response actions. It also includes a preliminary identification of potential source areas, contaminant release mechanisms, exposure routes,

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potentially exposed populations, as well as a determination of the non-numerical risk or potential adverse health effects for the identified potential receptors, and an evaluation of the environmental consequences of all storage, use generation, and disposal on the property.

JFA--- Feas-HTRW Preliminary Assessment Report: A description of existing and past land uses, based on a review of the historical records and other public documentation, evaluated to determine the potential presence of any HTRW. The evaluation should include the potential impact of known HTRW sites in the vicinity.

JFB--- Feas-HTRW Site Inspection Report: A report based on visual surveys of possible project sites made to determine the potential for HTRW.

JFC--- Feas-HTRW Remedial Investigation Study/Report: The results of the investigations necessary to determine the extent of HTRW contaminants in relation to alternative project features and adjacent lands that could be impacted by these features. These investigations are based in part on preliminary field explorations.

JFD--- Feas-All Other HTRW Documents: All other appropriate HTRW documents determined to be needed on a case by case basis.

JG---- *Feas-Cultural Resource Report:* An evaluation of alternative plans in terms of their relative impact on historic properties which shall be developed in consultation with the State Historical Preservation Officer. A sampling survey strategy will normally be used and will provide for the efficient planning of any further cultural resource investigations that may be needed prior to initiation of construction. When considered necessary, or appropriate, a sample survey may be waived in favor of an intensive survey/inventory during the Feasibility Phase.

JGA--- Feas-Site Survey Field Report: Investigations formulated within a research strategy tailored to insure adequate coverage of the environmental zones within alternative plan impact areas and provide such information necessary to address project concerns. Sampling strategy will also consider costs of survey with respect to the number of viable alternative plans and the extent of the known area of potential effects.

JGB--- Feas-Data Collection and Analysis Report: A brief description of the identified and predicted historic properties which would be impacted by the alternative plans that will be included in the Feasibility Report and NEPA documents. Historic resource considerations that may influence the plan recommendations would be clearly set forth in the Feasibility Report.

JGC--- Feas-Mitigation Plan Report: Documents that determine the need for mitigating adverse effects on historic properties listed or eligible for listing on the National Register of Historic Places, and includes plans and cost estimate for mitigation or other treatment of historic properties affected by the project.

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JGD--- Feas-Memorandum of Agreement: If the identification of historic properties and project impacts cannot be accomplished in a timely manner for consideration in a NEPA document or Feasibility Report, a Memorandum of Agreement (MOA) can be developed between the District, the State Historic Properties Officer (SHPO), the Advisory Council on Historic Preservation, and other consulting parties to specify the processes by which required surveys, testing, evaluation effects determination, mitigation planning, and coordination will be achieved.

JGE--- Feas-One Percent Waiver: A waiver request in the form of a letter report submitted through channels to HQUSACE, should the estimated cost of the mitigation exceed one percent of the total estimated Federal appropriation required for construction of a project and Congress has not specifically authorized expenditures in excess of this amount, . HQUSACE shall review the waiver request and prepare any additional documentation for approval by the Chief of Engineers. The waiver shall then be submitted to the Secretary of the Interior, through the Department Consulting Archeologist, for concurrence and Congressional notification.

JGF--- Feas-All Other Cultural Resources Studies/Reports: All other appropriate cultural resource documents determined to be needed on a case by case basis.

JH--- ***Feas-Cost Estimates:*** All deliverables related to preparation of life cycle project cost estimates needed to support the Feasibility Report, and to prepare the baseline project cost estimate. These estimates will include both Federal and non Federal costs for construction, real estate, engineering and design, construction management, environmental, cultural resources and HTRW investigations and remediation, operation and maintenance, replacement repairs and rehabilitation of alternatives and the recommended project. Revisions to the estimates prepared for the draft report and comparative cost estimates used for alternative and incremental analyses are also included. In addition, this product will include the cost of the preparation of any cost estimate updates.

JHA--- Feas-Study Cost Estimate Updates: All deliverables related to the preparation of and revisions to the Feasibility Study Cost Estimate.

JHB--- Feas-PE&D Cost Estimate: All deliverables related to the preparation of and revisions to the PE&D cost estimate, for the Federal cost for all planning, engineering and design from the date of the Division Commanders Notice to the award of the first Federal construction contract.

JHC--- Feas-Project Cost Estimate: All deliverables related to preparation of project cost estimates needed to support the Feasibility Report. These estimates will include both Federal and non Federal costs for construction, real estate, engineering and design, cultural resources, construction management, HTRW investigations and remediation of potential project impacts. Comparative cost estimates used for alternative and incremental analyses are also included.

JHD--- Feas-OMRR&R Cost Estimate: All deliverables related to the preparation of the OMRR&R cost estimates. Comparative estimates of the life cycle project costs used for alternative and incremental analyses are included.

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JHE--- Feas-Baseline Fully Funded Cost Estimate: The original or revised project cost estimate that has been fully funded, escalated for inflation), through completion of the project. Used to support the Project Management Plan (PMP) and upward reporting requirements.

JHF--- Feas-All Other Cost Estimates: All other appropriate cost estimate documents determined to be needed on a case by case basis.

JI--- ***Feas-Public Involvement Documents:*** Notices of Meetings, Meeting Summaries, copies of pertinent letters and other items appropriate to public involvement.

JIA--- Feas-Notice of Public Meeting(s): Letters, notices, newspaper articles, radio announcements to inform the public of public meetings.

JIB--- Feas-Minutes of Public Meeting(s): Verbal record and written transcripts of the public meeting(s).

JIC--- Feas-Public Comments Report: A brief summary of the comments received during and after the public meetings and workshops.

JID--- Feas-Newsletters: Periodic publications distributed to interested parties to inform the public as to the study progress.

JIE--- Feas-All Other Public Involvement Documents: All other appropriate public involvement documentation determined to be needed on a case by case basis.

JJ--- ***Feas-Plan Formulation and Evaluation Report:*** An intermediate report prepared to document the formulation process when required for review or coordination. Can be used as an appendix for the main report.

JK--- ***Feas-Draft Report Documentation:*** A draft report on the Feasibility Phase of the study prepared following the guidance in ER 1105-2-100.

JKA--- Feas-Review Conference (FRC) Documents: Memorandum For the Record documenting the issues discussed and decisions reached at the FRC. Prepared by the District and forwarded through MSC to HQUSACE for approval, along with other appropriate documents as required.

JKB--- Feas-Public Review Comments: Letters received in response to the review of the draft Feasibility Report by the agencies and the public. Includes responses to those comments prepared by the District and included in the final report.

JKC--- Feas-Project Guidance Memorandum (PGM): Directive guidance prepared by HQUSACE for the work to be accomplished to obtain approval of the final Feasibility Report.

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JKE--- Feas-All Other Draft Feasibility Report Documents: All other appropriate draft report documents determined to be needed on a case by case basis.

JL---- *Feas-Final Report Documentation:* Documents announcing completion of the Division Commanders Report based on his endorsement of the findings and recommendations of the District Commander, and indication that the report has been submitted for Washington Level Review and other appropriate documentation.

JLA--- Feas-Division Commanders Notice: The public notice announcing completion of the Division Commander's Report, based on his endorsement of the findings and recommendations of the District Commander, and indication that the report has been submitted for Washington Level Review.

JLB--- Feas-All Other Final Feasibility Report Documents: All other appropriate final report documents determined to be needed on a case by case basis.

JM---- *Feas-Washington Level Report Approval:* The final report, after completion of all levels of review, for submittal to the Congress.

JMA--- Feas-Policy Review Approval: A written assessment of the final Feasibility Report, prepared by the Washington Level Review Center (WLRC), to document the Feasibility Reports compliance with current policy.

JMB--- Feas-Chief's Report: A brief summary of the report, signed by the Chief of Engineers, to transmit recommendations to the Assistant Secretary of the Army for Civil Works, ASA(CW).

JMC--- Feas-OMB Report Approval: Letter from OMB to ASA(CW) expressing the Administration's position regarding transmitting the report to Congress for Authorization.

JMD--- Feas-ASA(CW) Report Approval: Letter from ASA(CW) transmitting the Feasibility Report along with ASA(CW)'s recommendation to Congress.

JN---- *Feas-All Other Feasibility Studies/Investigations:* All other appropriate feasibility study documents determined to be needed on a case-by-case basis.

JO---- *Feas-Damages Assessed AE Contractors:* Documents that determine and assess the liability for inadequate AE efforts.

JP---- *Feas-Management Documents:* All of the documents related to the management of the Feasibility Report, including AE contract administration and in-house control.

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JPA--- Feas-AE Contract Documents: Negotiation, award and contract administration documents for the utilization of AE contractors to complete, or assist in the completion of, other Feasibility Phase products, as determined on a case-by-case basis.

JPB--- Feas-Coordination Documents: Copies of letters exchanged with the local sponsor that affect study costs, scopes and/or schedules, official correspondence with higher authority on similar subjects, internal memoranda which bear on significant study elements and, in general, any other correspondence which affects significant aspects of the study.

JPC--- Feas-Study Funds Control Documents: Internal funds control documents for the allocation and management of the Feasibility Study.

JPD--- Feas-Trip Reports: Written trip reports that document the initial site visits, meetings with the potential local sponsor, and other significant trips that effect the scope, cost or schedule of the Feasibility Report or the project.

JPE--- Feas-Minutes of Technical Review Conference (TRC): Comments on the technical aspects of the Feasibility Report as reviewed concurrently at a Technical Review Conference with the District, MSC, and HQUSACE.

JPF--- Feas-All Other Management Documents: All other appropriate management documents determined to be needed on a case by case basis.

K----- *Project Cooperation Agreement (PCA)*: Documentation that accompanies the Feasibility Report detailing the cost sharing aspects, relative roles and responsibilities for the project, and an analysis of the local sponsor's general ability to meet their responsibilities under the terms of the PCA.

KA---- *PCA-Initial Draft PCA Package*: Includes the initial draft: (1) applicable model PCA for the appropriate type of project (see ER 1105-1-100 and ER 1165-1-131); (2) federal non-federal allocation of funds table; (3) PCA deviation report; (4) certification of legal review; and, (5) MSC review comments.

KAA--- PCA-Initial Draft PCA: Applicable draft PCA for type of project. See ER 1105-2-100 and ER 1165-2-131.

KAB--- PCA-Federal/Non-Federal Allocation of Funds Table: The allocation of funds for each feature, programmed by FY, and separated by local sponsor and Federal Government. This table outlines the cash flow for each partner for project purposes. See ER 1165-2-131, ER 11-2-240, and appropriate Project Management guidance letters.

KAC--- PCA-Deviation Report: The Deviation Report outlines, point-by-point, the deviations of the PCA from the standard "model" PCA. Intended to assist higher level authorities

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in their review of the PCA. See ER 1165-2-131. Usually an attachment to the letter forwarding the draft PCA package to HQUSACE.

KAD--- PCA-Certification of Legal Review: A brief memorandum for record that certifies that the District Counsel has reviewed the initial draft PCA for legal sufficiency.

KAE--- PCA-MSR Review Comments: The endorsement that contains the MSR review comments on the PCA.

KB--- *PCA-Final Draft PCA Package:* Includes the final draft: (1) PCA for the appropriate type of project (see ER 1105-1-100 and ER 1165-1-131); (2) federal non-federal allocation of funds table; (3) PCA deviation report; (4) certification of legal review; and, (5) MSR review comments for submittal to HQUSACE for approval.

KBA--- PCA-Final Draft PCA: Applicable final draft PCA for type of project. See ER 1105-2-100 and ER 1165-2-131.

KBB--- PCA-Federal and Non Federal Allocation of Funds Table: The final allocation of funds for each feature, programmed by FY, and separated by local sponsor and Federal Government. This table outlines the cash flow for each partner for project purposes. See ER 1165-2-131, ER 11-2-240, and appropriate Project Management guidance letters.

KBC--- PCA-Deviation Report: The Deviation Report outlines, point-by-point, the deviations of the PCA from the standard "model" PCA. Intended to assist higher level authorities in their review of the final PCA. See ER 1165-2-131. Usually an attachment to the letter forwarding the final PCA package to HQUSACE.

KBD--- PCA-Certification of Legal Review: A brief memorandum for record that certifies that the District Counsel has reviewed the final draft PCA for legal sufficiency.

KBE--- PCA-Sponsor's Financing Plan and Statement of Financial Capability: Final analysis of the local sponsor's capability to meet its financial responsibilities toward project execution. See ER 1105-2-100 and ER 1165-2-131.

KBF--- PCA-Project Fact Sheet or Project Data Sheet: A document prepared for a project, or separable element thereof, which includes at a minimum, paragraphs that discuss the project: Authority, Congressional districts, location, type or purpose of project, description of recommended plan, status of environmental compliance, the name of the technical document, PCA-based construction costs by FY (sunk cost and feature cost) separated by Federal Government and local sponsor, and special consideration and local sponsor views, etc..

KBG--- PCA-Computation of Cost Sharing, 902 Limit, Ability to Pay, Territories Waiver As Applicable: In accordance with Section 902 of WRDA'86, a project cannot exceed 120% of the

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authorized project cost without further Congressional authorization, exclusive of Congressional requirements and inflation. This analysis outlines the methodology for the computation of the Section 902 Project Cost Limit when the project is first authorized. See ER 1165-2-131, ER 1105-2-100, ER 1165-2-29 and ER 1165-2-100.

KBH--- PCA-Final Draft 3rd Party Sub-Agreements: See ER 1165-2-131.

KBI--- PCA-MSC Review Comments: The endorsement that contains the MSC review comments on the final PCA.

KBJ--- PCA-All Other Final Draft PCA Documents: All other appropriate final draft PCA documents determined to be needed on a case by case basis.

***KC----* PCA-Minutes of HQUSACE PCA Review Committee Meetings:**

The PCA is reviewed with the ASA(CW), HQUSACE, MSC, District project team, along with the local sponsor. The minutes of the meeting outlining comments to the final PCA package document and last minute changes to the PCA. The PCA that is developed by the review committee is recommended to the ASA(CW) for approval.

***KD----* PCA-Executed PCA:** All of the documents that make up the final approved and executed PCA package.

KDA--- PCA-MSC Approved PCA: Final draft PCA package approved by MSC.

KDB--- PCA-HQUSACE Approved PCA: Final draft PCA package approved by HQUSACE.

KDC--- PCA-ASA(CW) Approved PCA: Final draft PCA package approved by ASA(CW).

KDD--- PCA-OMB Approved PCA: Final draft PCA package approved by OMB. (Not applicable to PCA's for follow-on separable elements.)

KDE--- PCA-Local Sponsor Executed PCA, Certificate of Authority, and Lobbying Certificate: PCA package documents signed by local sponsor.

KDF--- PCA-ASA(CW) Executed PCA: PCA executed by ASA(CW).

***KE----* PCA-Escrow Agreement:** The local sponsor has the option to fund their cash share of the project in the form of up-front cash contributions, or may choose to utilize an escrow account to allow for the accumulation of interest, while still allowing the Federal Government to make draws from the escrow account for project purposes or may choose to obtain a letter of credit from a bank. The escrow agreements are based on standard agreements, and will require higher authority approval for deviations. See ER 1165-2-131.

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KEA--- PCA-HQUSACE Approved Escrow Agreement: Escrow agreement approved by HQUSACE (for escrow agreements that deviate from the model contained in ER 1165-2-131).

KEB--- PCA-Executed Escrow Agreement: Escrow agreement signed by the local sponsor and executed by ASA(CW) or his/her designee.

KF---- ***PCA-Initial Draft PCA Amendment Package:*** Includes the initial draft amended: (1) PCA that was executed for the project; (2) amended federal non-federal allocation of funds table; (3) PCA deviation report; (4) certification of legal review; and, (5) MSC review comments.

KFA--- PCA-Initial Draft PCA Amendment: The executed PCA for the project with proposed amendments. See ER 1105-1-100 and ER 1165-1-131.

KFB--- PCA-Amended Federal/Non Federal Allocation of Funds Table: The allocation of funds for each feature, programmed by FY, and separated by local sponsor and Federal Government. This table outlines the cash flow for each partner for project purposes based upon proposed amendments. See ER 1165-2-131, ER 11-2-240, and appropriate Project Management guidance letters.

KFC--- PCA-Amended PCA Deviation Report: The Deviation Report outlines, point-by-point, the deviations of the PCA from the executed PCA. Intended to assist higher level authorities in their review of the amended PCA. See ER 1165-2-131. Usually an attachment to the letter forwarding the draft PCA amendment package to HQUSACE.

KFD--- PCA-Amended PCA Certification of Legal Review: A brief memorandum for record that certifies that the District Counsel has reviewed the negotiated amended draft PCA for legal sufficiency.

KFE--- PCA-Initial Draft PCA Amendment MSC Review Comments: The endorsement that contains the MSC review comments on the amended PCA. This process normally results in the District modifying the draft PCA amendment package and resubmitting to the MSC prior to submission to HQUSACE.

KG---- ***PCA-Final Draft PCA Amendment Package:*** Includes the final draft amended: (1) PCA that was executed for the project; (2) federal non-federal allocation of funds table; (3) PCA deviation report; (4) certification of legal review; and, (5) MSC review comments.

KGA--- PCA-Final Draft PCA Amendment: The executed PCA for the project with final proposed amendments. See ER 1105-1-100 and ER 1165-1-131.

KGB--- PCA-Amended Federal/Federal Allocation of Funds Table: The final amended allocation of funds for each feature, programmed by FY, and separated by local sponsor and

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Federal Government. This table outlines the cash flow for each partner for project purposes. See ER 1165-2-131, ER 11-2-240, and appropriate Project Management guidance letters.

KGC--- PCA-Amended PCA Deviation Report: The final amended Deviation Report outlines, point-by-point, the deviations of the amended PCA from the executed PCA for the project. Intended to assist higher level authorities in their review of the amended PCA. See ER 1165-2-131. Usually an attachment to the letter forwarding the final amendment PCA package to HQUSACE.

KGD--- PCA-Amended Certification of Legal Review: A brief memorandum for record that certifies that the District Counsel has reviewed the final amended PCA for legal sufficiency.

KGE--- PCA-Amended Sponsor's Financing Plan and Statement of Financial Capability: Analysis of the local sponsor's capability to meet its financial responsibilities for project execution. See ER 1105-2-100 and ER 1165-2-131 and ER 1165-2-29.

KGF--- PCA-Amended Project Fact Sheet or Project Data Sheet: A document prepared for a project, or separable element thereof, which includes as a minimum, paragraphs that discuss the project and any amendments thereto: Authority, Congressional districts, location, type or purpose of project, description of recommended plan, status of environmental compliance, the name of the technical document and special consideration and local sponsor views, etc..

KGG--- PCA-Computation of Amended Cost Sharing, 902 Limit, Ability to Pay, Territories Waiver As Applicable: In accordance with Section 902 of WRDA'86, a project cannot exceed 120% of the authorized project cost without further Congressional authorization, exclusive of Congressional requirements and inflation. This analysis outlines the methodology for computation of any amendments necessary to the Section 902 Project Cost Limit that was established when the project was first authorized. See ER 1165-2-131 and ER 1105-2-100.

KGH--- PCA-Amended Final Draft 3rd Party Sub-Agreements: See ER 1165-2-131.

KGI--- PCA-Final Draft PCA Amendment MSC Review Comments: The endorsement that contains the MSC review comments on the final draft amended PCA.

KGJ--- PCA-All Other Final Draft PCA Amendment Documents: All other appropriate Final Draft PCA Amendment documents determined to be needed in accordance with HQUSACE guidance.

KH---- *PCA-Minutes of HQUSACE PCA Amendment Review Committee Meetings:* The amended PCA is reviewed by the ASA(CW), HQUSACE, MSC, District project team, along with the local sponsor. The minutes of the meeting outlining comments to the final amended PCA package documents and last minute changes to the PCA. The amended PCA developed by the committee is recommended to ASA(CW) for approval.

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KI--- **PCA-Executed PCA Amendment:** All of the documents that make up the final approved and executed PCA Amendment package.

KIA--- PCA-MSC Approved PCA Amendment: Final draft PCA amendment package approved by MSC.

KIB--- PCA-HQUSACE Approved PCA Amendment: Final draft PCA amendment package approved by HQUSACE.

KIC--- PCA-ASA(CW) Approved PCA Amendment: Final draft PCA amendment package approved by ASA(CW).

KID--- PCA-OMB Approved PCA Amendment: Final draft PCA amendment package approved by OMB. (Usually not applicable)

KIE--- PCA-Local Sponsor Executed PCA Amendment, Certificate of Authority, and Lobbying Certificate: PCA amendment package documents signed by local sponsor.

KIF--- PCA-ASA(CW) Executed PCA Amendment: PCA amendment executed by ASA(CW).

KJ--- **PCA-Amended Escrow Agreement:** The local sponsor has the option to fund their cash share of the project in the form of up-front cash contributions, or may chose to utilize an escrow account to allow for the accumulation of interests, while still allowing the Federal Government to make draws from the escrow account for project purposes. The amended Escrow Agreements are based on standard agreements, and will require higher authority approval for deviations. See ER 1165-2-131.

KJA--- PCA-HQUSACE Approved Amended Escrow Agreement: Amended escrow agreement approved by HQUSACE (for escrow agreements that deviate from the model in ER 1165-2-131).

KJB--- PCA-Executed Amended Escrow Agreement: Amended escrow agreement signed by the local sponsor and executed by the ASA(CW) or his/her designee.

L----- **Project Management Plan (PMP):** A Project Management Plan prepared in accordance with " Project Management", ER 5-7-1 (FR), dated 30 September 1992, Appendix 2-A.

LA--- **PMP-Final PMP:** The final PMP as approved by the District, the Local Sponsor and higher authority.

LAA--- PMP-Scope of Work: A narrative description of the scope of the project as described in the Feasibility Report. Used as a basis for the WBS. See ER-5-7-1(FR), and Appendix 2-A.

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LAB--- PMP-Work Breakdown Structure (WBS): The scope of the Project is broken down in accordance to the standardized Work Breakdown elements to a level of detail that is appropriate to the size and complexity of the potential project, and in accordance with all current Project Management regulations. See ER-5-7-1(FR), and Appendix 2-A.

LAC--- PMP-Organizational Breakdown Structure (OBS): A tabular or graphic representation of the organization of the District or field office, indicating lines of authority and communication. The lowest level of the OBS should be equal to the lowest anticipated level of management. See ER-5-7-1(FR), and Appendix 2-A.

LAD--- PMP-Resource Allocation Matrix (RAM): The RAM is the intersection of the WBS and the OBS, where a matrix is formed that assigns every lowest level WBS element to the lowest level OBS element. See ER-5-7-1(FR), and Appendix 2-A.

LAE--- PMP-Project Schedule: Using an automated Network Analysis System (NAS), the schedule takes the lowest level WBS elements and assigns durations, costs, and logic. The minimum time that it takes to execute each of the WBS elements that are on the "critical path" yields the minimum project duration. See ER-5-7-1(FR), and Appendix 2-A.

LAF--- PMP-Project Budgets and Cost Estimates: With the estimated costs for each of the WBS elements loaded into the NAS, the NAS program will yield a total Project Budget, cost curves and other budget information. This information is the basis for all the project funding requirements. See ER-5-7-1(FR), Appendix 2-A.

LAG--- PMP-Current Benefits Plan: A report that outlines a plan for periodic review and updating of the project benefits to ensure that they are current for use in an economic analysis. See ER 5-7-1 (FR) and Appendix 2-A.

LAH--- PMP-Resource Allocation Plan: A report that outlines the resources that are required for the completion of the project, sorted by District, local sponsor or others. The resources that are planned should include labor, technical support, materials and supplies, computers and any special software, training, etc. See ER-5-7-1(FR), Appendix 2-A.

LAI--- PMP-Project Cooperation Plan: The plan that documents the non-Federal activities throughout project development and documents needed to satisfy the terms of the PCA. See ER-5-7-1(FR), Appendix 2-A.

LAJ--- PMP-Acquisition Plan: A comprehensive picture of what is being procured, how the proposed acquisition will take place, and to document why the type or manner of procurement is the most appropriate for the acquisition planned. See ER-5-7-1(FR), Appendix 2-A.

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LAK--- PMP-Real Estate Plan: In order to assure that the Real Estate needs are identified early and are well resourced, all of the Real Estate requirements are outlined. See ER 5-7-1(FR), Appendix 2-A.

LAL--- PMP-Project Quality Management (PQM) Plan: A PQM plan that identifies the quality related codes, standards and regulations applicable to the project. See ER-5-7-1(FR), Appendix 2-A.

LAM--- PMP-Value Engineering (VE) Plan: A Value Engineering plan must be performed for civil works projects over \$10,000,000. VE definition, guidance and procedures are found in OMB Circular A-131. See ER-5-7-1(FR), Appendix 2-A.

LAN--- PMP-Safety Plan: With the support of the District Safety office, all of the aspects of the project investigations, design, and construction must be outlined with personal safety in mind. This portion of PMP outlines the risks that the project would entail, and the measures that are to be taken to minimize those risks. See ER-5-7-1(FR), Appendix 2-A.

LAO--- PMP-Security Plan: Documents that describe the need for security and the security measure and procedures to be implemented for the protection of the project's sensitive and classified information. See ER-5-7-1(FR), Appendix 2-A.

LAP--- PMP-Cultural Resource Plan: The coordinated plan to deal with any cultural resources, actual or suspected, and the resources to deal with new cultural resources that may be discovered during design or construction. See ER-5-7-1(FR), Appendix 2-A.

LAQ--- PMP-Environmental Plan: Document that specifically addresses the plan to comply with all NEPA requirements during the design and construction of the project. See ER-5-7-1(FR), Appendix 2-A.

LAR--- PMP-FEMA/ National Flood Insurance Program (NFIP) Adequate Progress Plan: The coordinated plan to ensure that the local sponsor receives timely realization of any flood insurance rate reduction benefits. See ER-5-7-1(FR), Appendix 2-A.

LAS--- PMP-Operations and Maintenance Plan: Outlines the responsibilities of the parties for the eventual operation, maintenance, repair, replacement, and rehabilitation of the project facilities and features. See ER-5-7-1(FR), Appendix 2-A.

LAT--- PMP-Management and Control Plan: Description of the methods used to manage and control cost, schedule and technical performance. See ER-5-7-1(FR), Appendix 2-A.

LAU--- PMP-Reporting Requirements Plan: Report that outlines all of the reporting, informal and formal, internal and external, that will be used for the project. See ER-5-7-1 (FR), Appendix 2-A.

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LAV--- PMP-Change Control Plan: Document that outlines the procedures for processing changes to the scope, schedule or cost of the project, maintaining the baseline, reconciling budgets and managing contingencies. See ER-5-7-1(FR), Appendix 2-A.

LAW--- PMP-Appendix: Additional backup material to support the PMP, such as technical data, supporting data, detailed cost estimates and example reports. See ER-5-7-1(FR), Appendix 2-A.

LAX--- PMP-Coordination Document: All parties have to sign the PMP to show that all parts of the plan are in agreement and will be supported by all team members. This coordination is documented by a sign off approval sheet that is made part of the PMP. See ER-5-7-1(FR), Appendix 2-A.

LAY--- PMP-All Other PMP Documents: All other appropriate PMP documents determined to be needed on a case by case basis.

LB---- *PMP-Revisions to PMP:* During the life of the project, the PMP may have to be revised in order to reflect a changing project scope, revised project cost estimates, schedules or changes in the relative roles and responsibilities of the Federal government and the local sponsor.

M----- RESERVED FOR FUTURE HQUSACE USE

N----- RESERVED FOR FUTURE HQUSACE USE

O----- RESERVED FOR FUTURE HQUSACE USE

P----- RESERVED FOR FUTURE HQUSACE USE

Q----- RESERVED FOR FUTURE HQUSACE USE

R----- *General Reevaluation Report (GRR):* A report, consistent with the level of detail of the GRR evaluations, that documents significant changes to the project scope, function, use, projected impacts to the environment, and/or economic conditions. See ER 1105-2-100.

RA---- *GRR-Engineering Analysis/Report:* The Engineering studies, tests and analysis towards the reformulation of the original project consistent with the scope of the GRR. As such, a GRR would be essentially the same as the Feasibility Report activities previously presented.

RAA--- GRR-Surveys and Mapping Except for Real Estate: Available information, as well as additional field information, topographic, real estate and other maps are obtained and prepared and made available to the project designers and plan formulators consistent with the scope of the GRR. Sources of the mapping are the USGS, State and local government planning agencies, as well as the potential local sponsor.

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RAB--- GRR-Site Development Analysis/Report: This report is generally required only on major projects where the site can-not be selected based on an initial field inspection or evaluation of existing data, but will require additional field investigations and possibly more detailed hydraulic analysis.

RAC--- GRR-Hydrology and Hydraulic Studies Report: A report that reviews the existing Hydraulic and Hydrology data and analysis, with possible updates and revisions as needed to incorporate changes that effect the Hydraulic modeling consistent with the scope of the GRR.

RAD--- GRR-Engineering and Design Analysis Report with Preliminary Drawings: Detailed engineering design and analysis with preliminary drawings consistent with the scope of the GRR

RAE--- GRR-Geotechnical Studies Report: Field exploration, laboratory and testing to obtain necessary geologic and soil information on all aspects of the project, including the identification of borrow and material sources consistent with the scope of the GRR.

RAF--- GRR-Model Studies: Mathematical or physical models of the project area that are used to develop design parameters and other criteria consistent with the scope of the GRR.

RAG--- GRR-All Other Engineering Documents: All other appropriate engineering documents determined to be needed on a case by case basis consistent with the scope of the GRR.

RB---- ***GRR-Socioeconomic Analysis/Report:*** A report prepared in accordance with ER 1106-2-100 containing an analysis of a water resource problem, including the social and demographic characteristics of the community in which the problem occurs, and the most effective solution to that problem consistent with the scope of the GRR.

RBA--- GRR-Economic Analysis/Report: A determination of the "with" and "without" project average annual damages and benefits for each of the alternatives, and a recommendation of the National Economic Development (NED) plan, based on current economic policy.

RBB--- GRR-Social Studies/Report: Using available information, a determination of the general socio-economic conditions of the study area, and the effects that the project alternatives and the recommended plan will have.

RBC--- GRR-Institutional Studies/Report: Investigations to assess the legal and financial capabilities of the potential local sponsor to participate in a Federal Project, from in-kind work, cash payments, and long term Operations, Maintenance, Rehabilitation, Repair and Replacement.

RBD--- GRR-Ability to Pay Report: Based on Section 103 M of WRDA 86, ER 1105-2-100, an analysis that determines the local sponsor eligibility to reduce their cost sharing

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responsibilities based local economic conditions. If there is a reduction, it will be outlined in the terms of the PCA (original or amended as needed).

RBE--- **GRR-All Other Socioeconomic Analysis Documents:** All other appropriate socio-economic documents determined to be needed on a case by case basis consistent with the scope of the GRR.

RC--- **GRR-Real Estate Analysis/Document:** All written real estate memoranda, opinions, reports and other documents as required on a project-by project basis consistent with the scope of the GRR.

RCA--- **GRR-Real Estate Supplement/Plan:** The portion of the GRR that outlines the minimum real estate requirements for a proposed project as required by ER 405-1-12, Draft Chapter 12. The Real Estate Supplement/Plan (RES/REP) contains a description of the area; the acreage and proposed estates, including any non-standard estates, and the reasons therefore; a discussion of any land owned by the Federal government, the Local Sponsor or any public entity; an estimate of the Public Law 91-646 relocation; the Baseline Cost Estimate for real estate; a discussion of the Local Sponsor's ability to acquire LERRD; a discussion of mineral activity, if any and the attitude of landowner; a detailed schedule of land acquisition; and at a minimum a preliminary assessment of facilities/utilities to be relocated; and any other relevant real estate information appropriate for the project.

RCB--- **GRR-Gross Appraisal Report:** A detailed, supported appraisal of the collective real estate easement requirements and the impacts of the project or selective portion thereof, including review and approval, as required by ER 405-1-12, (Chapter 4 and Draft Chapter 12) and policy guidance.

RCC--- **GRR-Preliminary Real Estate Acquisition Maps:** The initial set of maps and drawings that delineate the real estate acquisition lines based on technical design drawings developed during the preparation of the GRR. Reflects the minimum real estate required for project purposes.

RCD--- **GRR-Physical Takings Analysis:** A written legal opinion as to whether flooding estimated to be induced by the construction, operation or maintenance of the proposed project will rise to the level of a taking of an interest in real property for which just compensation must be paid to the owner of the real property impacted by such induced flooding. The opinion describes the analysis of relevant information regarding the depth, frequency, duration, velocity and extent of such induced flooding, as well as relevant state and federal law, and presents a conclusion on the physical occupation taking issue.

RCE--- **GRR-Preliminary Attorney's Opinion of Compensability:** A preliminary legal opinion on whether a provision of a substitute facility is required under the Fifth Amendment

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as compensation for a facility/utility being acquired for a project. The opinion makes findings on whether the owner has a compensatable interest, whether the owner has the legal duty to continue to maintain and operate the facility/utility, and whether that federal law requires the provision of a substitute facility/utility rather than a mere payment of the market value for the property acquired. The preliminary legal opinion differs from the final legal opinion only in its acceptance as fact of the owner's statement of its interest in the property, without a search of property records.

RCF-- GRR-Rights of Entry: Documents which evidence permission from a landowner to temporarily use his/her land for a specific time and purpose. Obtained for purposes of environmental investigations, cultural assessments, core sampling, surveys, exploration, etc. Can be obtained by the Government, Contractor, or the Local Sponsor.

RCG--- GRR-All Other Real Estate Analysis/Documents: All other appropriate real estate documents determined to be needed on a case by case basis including, but not limited to, preliminary title reports, plat maps, county recorder's data, detailed land acquisition schedules, etc. consistent with the scope of the GRR.

RD---- GRR-Environmental Studies Documents (EA, EIS, SEIS, etc.): Existing NEPA documents prepared during the Feasibility Phase are reviewed. If there has been a change in the project since the Feasibility Phase, a supplemental NEPA document is to be prepared, and fully coordinated, with all necessary state clearances obtained, consistent with the scope of the GRR, in accordance with ER 1105-2-100 and ER 200-2-2.

RDA--- GRR-Minutes of Scoping Meetings: Record of discussions with the public and resource agencies that define the environmental concerns related to the proposed action.

RDB--- GRR-Biological Assessment: Report evaluating the potential effects of an action on listed endangered / threatened species and proposed special and designated or critical habitat. Utilized by US Fish and Wildlife Service in determining whether formal consultation or a conference is required.

RDC--- GRR-Environmental Assessment (EA) or Findings Of No Significant Impact (FONSI): Documents required by the National Environmental Policy Act of 1969, (NEPA) that evaluates the impacts, shown in the form of an EA, and the conclusion that no significant impacts are expected, (FONSI). If a FONSI cannot be supported, an EIS is required.

RDD--- GRR-Environmental Impact Statement (EIS), or Supplemental Environmental Impact Statement (SEIS): A document required by the National Environmental Policy Act of 1969 (NEPA) that provides a detailed evaluation of the significant impacts of a proposed action, presents a detailed alternative analysis, and proposes possible mitigation actions. If the scope of the project has changed, or if new significant environmental impacts are identified, the EIS will be revised in the form of a Supplemental EIS, or SEIS.

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RDE--- GRR-Coordination Documents with Other Agencies: Record of discussions with the public and resource agencies that define the environmental concerns related to the proposed action.

RDF--- GRR-Resource Inventory Report: An inventory of the natural resources that are located within a defined geographical area in which a proposed action would occur. Also includes a section on the needs and opportunities for improvement of natural resources within that area.

RDG--- GRR-Mitigation Analysis Report: A detailed evaluation of possible actions that would offset unavoidable impacts associated with a proposed action.

RDH--- GRR-Fish and Wildlife Coordination Act Report: A biological evaluation consistent with the scope of the GRR prepared by the US Fish and Wildlife Service detailing the impacts of a proposed action and alternative actions and providing recommendations for minimizing or mitigating any adverse impacts.

RDI--- GRR-Section 404 (b)(1) Analysis Report: A report required by the Clean Water Act which presents an analysis of water quality impacts associated with the placement of fill or dredged material in the waters of the United States.

RDJ-- GRR-401 State Water Quality Certification: Certification by the State that a proposed action will not result in a violation of state water quality criteria.

RDK--- GRR-Record of Decision (ROD): A document required by NEPA in cases where EIS's are prepared that provides a history of actions taken to evaluate project impacts and describes all compliance actions taken. Signifies compliance with NEPA.

RDL--- GRR-Section 103 Evaluation: A report required by the Marine Protection, Research, and Sanctuaries Act which evaluates the impacts associated with the transportation of dredged material to the ocean for the purpose of disposal.

RDM--- GRR-Statement of Findings (SOF): A comprehensive summary of all environmental coordination and record of environmental compliance prepared in instances when an EIS is not required. In those cases when an EIS is prepared, the ROD replaces the SOF.

RDN--- GRR-Coastal Zone Management Consistency Determination Report: A determination by a State that a proposed action is consistent with the requirements of the State Coastal Zone Management Plan.

RDO--- GRR-All Other Environmental Documents: All other appropriate environmental documents determined to be needed on a case by case basis consistent with the scope of the GRR.

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RE---- ***GRR-HTRW Analysis/Report:*** A report summarizing the hazardous/toxic/radiological wastes occurrences within and nearby the project area consistent with the scope of the GRR. It includes a determination of the nature and extent of contamination and a qualitative analysis of the impacts of any contamination in the absence of response actions. It also includes a preliminary identification of potential source areas, contaminant release mechanisms, exposure routs, potentially exposed populations, as well a determination of the non-numerical risk or potential adverse health effects for the identified potential receptors, and an evaluation of the environmental consequences of all storage, use generation, and disposal on the property.

REA--- **GRR-HTRW Assessment Report:** A description of existing and past land uses, based on historical records and other public documentation, evaluated to determine the potential presence of any HTRW. The evaluation should include the potential impacts of known HTRW sites in the vicinity.

REB--- **GRR-HTRW Site Inspection Report:** A report based on visual surveys of possible project sites made to determine the potential for HTRW.

REC--- **GRR-HTRW Remedial Investigations:** The results of the investigations necessary to determine the extent of HTRW contaminants in relation to alternative project features and adjacent lands that could be impacted by these features. These investigations are based in part on preliminary field explorations.

RED--- **GRR-All Other HTRW Documents:** All other appropriate HTRW documents determined to be needed on a case by case basis consistent with the scope of the GRR.

RF---- ***GRR-Cultural Resource Studies Documents:*** Intensive surveys and inventories, if required or not previously conducted earlier, accomplished in the area of potential effect of the recommended plan or authorized project consistent with the scope of the GRR. The results of these investigations serve as a basis for the formulation of plans for the management of historic properties prior to or during the construction and operational stages of the project.

RFA--- **GRR-Survey Field Report:** Investigations formulated within a research strategy tailored to insure adequate coverage of the environmental zones within alternative plan impact areas and provide such information necessary to address project concerns. Sampling strategy will also consider costs of survey with respect to the number of viable alternative plans and the extent of the known area of potential effects.

RFB--- **GRR-Data Collection and Analysis Report:** A brief description of the identified and predicted historic properties which would be impacted by the alternative plans that will be included in the GRR Report and NEPA documents. Historic resource considerations that may influence the plan recommendations would be clearly set forth in the GRR Report.

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RFC--- GRR-National Register Eligibility: Documentation that determines the eligibility of properties for the National Register of Historic Places.

RFD--- GRR-No Effects Determination: Documents that determines when a project will have a "no effect" on historic properties.

RFE--- GRR-No Adverse Effects Determination: Documents that identify historic properties whose values lie in their contribution to archeological, historic or architectural research, and which can be substantially preserved through the conduct of appropriate research in accordance with applicable standards and guidelines.

RFF--- GRR-Mitigation Plan Report: Documents that determine the need for mitigating adverse effects on historic properties listed or eligible for listing on the National Register of Historic Places, and includes plans and cost estimate for mitigation or other treatment of historic properties affected by the project.

RFG--- GRR-Memorandum of Agreement: If the identification of historic properties and project impacts cannot be accomplished in a timely manner for consideration in a NEPA document or other Report, a Memorandum of Agreement (MOA) can be developed between the District the State Historic Properties Officer (SHPO), and the Advisory Council on Historic Preservation and other consulting parties to specify the processes by which required surveys, testing, evaluation effects determination, mitigation planning, and coordination will be achieved.

RFH--- GRR-One Percent Waiver: Should the estimated cost of the mitigation exceed one percent of the total estimated Federal appropriation required for construction of a project and Congress has not specifically authorized expenditures in excess of this amount, a waiver request in the form of a letter report will be submitted through channels to HQUSACE. HQUSACE shall review the waiver request and prepare any additional documentation for approval by the Chief of Engineers. The waiver shall then be submitted to the Secretary of the Interior, through the Department Consulting Archeologist, for concurrence and Congressional notification.

RFI--- GRR-All Other Cultural Resources Studies/Reports: All other appropriate cultural resources documents determined to be needed on a case by case basis consistent with the scope of the GRR.

RG--- ***GRR-Cost Estimates:*** This includes all deliverables related to preparation of life cycle project cost estimates needed to support the Report, and to prepare the baseline project cost estimate consistent with the scope of the GRR. These estimates will include both Federal and non Federal costs for construction, real estate, engineering and design, construction management, HTRW investigations and remediation, operation and maintenance, replacement repairs and rehabilitation of alternatives and the recommended project. Revisions to the estimates prepared for the draft report and comparative cost estimates used for alternative and incremental analyses

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are also included. In addition, this product will include the cost of the preparation of any cost estimate updates.

RGA--- GRR-Study Cost Estimate: This includes all deliverables related to the preparation of revisions for the Reevaluation study cost estimates.

RGB--- GRR-PE&D Cost Estimate: This includes all deliverables related to the preparation and revisions of the PE&D cost estimate, for the Federal cost for all planning, engineering and design from the date of the Division Commanders Notice to the award of the first Federal construction contract.

RGC--- GRR-Project Cost Estimate: This includes all deliverables related to preparation of project cost estimates needed to support the GRR. These estimates will include both Federal and non Federal costs for construction, real estate, engineering and design, cultural resources, construction management, HTRW investigations and remediation of potential projects. Comparative cost estimates used for alternative and incremental analyses are also included.

RGD--- GRR-OMRR&R Cost Estimate: This includes all deliverables related to the preparation of the OMRR&R cost estimate. Comparative estimates of the life cycle project costs used for alternative and incremental analyses are included.

RGE--- GRR-Fully Funded Cost Estimate: The development of or revisions to the project cost estimate that has been fully funded through to the completion of the project. Used to support the Project Management Plan and other upward reporting requirements.

RGF--- GRR-All Other Cost Estimates: All other appropriate cost estimate documents determined to be needed on a case by case basis consistent with the scope of the GRR.

RH---- ***GRR-Public Involvement Documents:*** Notices of meetings, meeting summaries, copies of pertinent letters and other items appropriate to public involvement.

RHA--- GRR-Notice of Public Meeting(s): Letters, notices, newspaper articles, and radio announcements to inform the public of public meetings on the proposed project.

RHB--- GRR-Minutes of Public Meeting(s): Verbal record and written transcripts of the record taken at the public meeting(s).

RHC--- GRR-Public Comments Report: A brief summary of the comments taken at all of the public meetings and workshops.

RHD--- GRR-Newsletters: Periodic publications distributed to interested parties to inform the public as to the study progress.

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RHE--- GRR-All Other Public Involvement Documents: All other appropriate public involvement documents determined to be needed on a case by case basis consistent with the scope of the GRR.

RI--- ***GRR-Plan Formulation and Evaluation Report:*** An intermediate report prepared consistent with the scope of the GRR to document the formulation process when required for review or coordination. Can be used as an appendix for the main GRR.

RJ--- ***GRR-Draft Report Documentation:*** A draft Report on the GRR prepared following the guidance in ER 1105-2-100 and consistent with the scope of the GRR.

RJA--- GRR-Review Conference Documents: Memorandum For the Record documenting the issues discussed and decisions reached at the GRR Review Conference. Prepared by the District and forwarded through MSC to HQUSACE for approval.

RJB--- GRR-In-House Review Comments: Letters received in response to the review of the draft GRR by the agencies and the public. The District also prepares responses to comments for inclusion in the final GRR.

RJC--- GRR-Public Review Comments: Letters received in response to the review of the draft GRR by the agencies and the public. The District also prepares responses to comments for inclusion in the final GRR.

RJD--- GRR-Project Guidance Memorandum (PGM): Directive guidance for remaining work to be accomplished to obtain agency approval of the final GRR. The Project Guidance Memorandum is prepared by HQUSACE.

RJE--- GRR-All Other GRR Documents: All other appropriate report documents determined to be needed on a case by case basis consistent with the scope of the GRR.

RK--- ***GRR-Final Report Documentation:*** A final report on the GRR prepared following the guidance in ER 1105-2-100 and consistent with the scope of the GRR.

RKA--- ***GRR-Division Commanders Notice:*** The public notice announcing completion of the Division Commander's report, based on his endorsement of the findings and recommendations of the District Commander, and indication that the GRR has been submitted for Washington Level Review.

RKB--- ***GRR-All Other Final Report Documents:*** All other appropriate final report documents consistent with the level of detail of the GRR determined to be needed on a case by case basis.

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RL---- ***GRR-Washington Level Approved Report:*** The final GRR, after completion of all levels of review, for submittal to the Congress.

RLA--- GRR-Policy Review Approval: A written assessment of the final GRR, prepared by the Washington Level Review Center, to document the GRR's compliance with current policy.

RLB--- GRR-Chief's Report (PAC ONLY): A brief summary of the GRR, signed by the Chief of Engineers, to transmit recommendations to the Assistant Secretary of the Army for Civil Works, ASA(CW).

RLC--- GRR-OMB Approved Report (PAC ONLY): Letter from OMB to ASA(CW) expressing the Administration's position regarding transmitting the GRR to Congress for Authorization.

RLD--- GRR-ASA(CW) Approved Report: Letter from ASA(CW) transmitting the GRR and ASA(CW)'s recommendation to Congress.

RM---- ***GRR-All Other Studies/Investigations:*** All other appropriate GRR studies and investigations consistent with the scope of the GRR determined to be needed on a case by case basis.

RN---- ***GRR-Damages Assessed AE Contractors Documents:*** The documents that determine and assess the liability for inadequate AE efforts.

RO---- ***GRR-Management Documents:*** All of the documents consistent with the scope of the GRR related to the management of the GRR, including AE contract administration and in-house control.

ROA--- GRR-AE Contract Documents: The negotiation, award and contract administration documents for the utilization of AE contractors to complete, or assist in the completion of, other GRR products, as determined on a case-by-case basis.

ROB--- GRR-Study Funds Control Documents: Internal funds control documents for the allocation and management of the Study.

ROC--- GRR-Trip Reports: Written trip reports that document the initial site visit, meetings with the potential local sponsor, and other significant trips that effect the scope, cost or schedule of the GRR or the project.

ROD--- GRR-Coordination Documents: Copies of letters exchanged with the local sponsor that affect study costs, scopes and/or schedules, official correspondence with higher authority on similar subjects, internal memoranda which bear on significant study elements and, in general, any

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other correspondence which affects significant aspects of the study.

ROE--- GRR-Minutes of Technical Review Conference (TRC): The Technical aspects of the GRR Report are reviewed and comments presented at a Technical Review Conference with the District, MSC and HQUSACE.

ROF--- GRR-All Other Management Documents: All other appropriate management documents determined to be needed on a case by case basis consistent with the scope of the GRR.

S----- *Limited Reevaluation Report (LRR):* A report, consistent with the level of detail of the LRR evaluations, that documents limited changes to the project scope, function, use, projected impacts to the environment, and/or economic conditions. See ER 1105-2-100.

SA---- ***LRR-Engineering Analysis/Report:*** The Engineering studies, tests and analysis towards the reformulation of the original project consistent with the scope of the LRR. As such, a LRR would be essentially the same as the Feasibility Report activities previously presented.

SAA--- LRR-Surveys and Mapping Except for Real Estate: Available information, as well as additional field information, topographic, real estate and other maps are obtained and prepared and made available to the project designers and plan formulators consistent with the scope of the LRR. Sources of the mapping are the USGS, State and local government planning agencies, as well as the potential local sponsor.

SAB--- LRR-Site Development Analysis/Report: This report is generally required only on major projects where the site cannot be selected based on an initial field inspection or evaluation of existing data, but will require additional field investigations and possibly more detailed hydraulic analysis.

SAC--- LRR-Hydrology and Hydraulic Studies Report: A report that reviews the existing Hydraulic and Hydrology data and analysis, with possible updates and revisions as needed to incorporate changes that effect the Hydraulic modeling consistent with the scope of the LRR.

SAD--- LRR-Engineering and Design Analysis with Preliminary Drawings: Detailed engineering design and analysis with preliminary drawings consistent with the scope of the LRR.

SAE--- LRR-Geotechnical Studies Report: Field exploration, laboratory and field testing to obtain necessary geologic and soil information on all aspects of the project, including the identification of borrow and material sources consistent with the scope of the LRR.

SAF--- LRR-Model Studies: Mathematical or physical models of the project area that are used to develop design parameters and other criteria consistent with the scope of the LRR.

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SAG--- LRR-All Other Engineering Documents: All other appropriate engineering documents determined to be needed on a case by case basis consistent with the scope of the LRR.

SB---- *LRR-Socioeconomic Analysis/Report:* A report prepared in accordance with ER 1106-2-100 containing an analysis of a water resource problem, including the social and demographic characteristics of the community in which the problem occurs, and the most effective solution to that problem consistent with the scope of the LRR.

SBA--- LRR-Economic Analysis/Report: A determination of the "with" and "without" project average annual damages and benefits for each of the alternatives, and a recommendation of the National Economic Development (NED) plan, based on current economic policy.

SBB--- LRR-Social Studies/Report: Using available information, a determination of the general socio-economic conditions of the study area, and the effects that the project alternatives and the recommended plan will have.

SBC--- LRR-Institutional Studies/Report: Investigations to assess the legal and financial capabilities of the potential local sponsor to participate in a Federal Project, from in-kind work, cash payments, and long term Operations, Maintenance, Rehabilitation, Repair and Replacement.

SBD--- LRR-Ability to Pay Report: Based on Section 103 M of WRDA 86, ER 1105-2-100, an analysis that determines the local sponsor eligibility to reduce their cost sharing responsibilities based local economic conditions. If there is a reduction, it will be outlined in the terms of the PCA.

SBE--- LRR-All Other Socioeconomic Analysis Documents: All other appropriate socio-economic documents determined to be needed on a case by case basis consistent with the scope of the LRR.

SC---- *LRR-Real Estate Analysis/Document:* All written real estate memoranda, opinions, reports and other documents as require on a project-by project basis consistent with the scope of the LRR.

SCA--- *LRR-Real Estate Supplement/Plan:* The portion of the LRR that outlines the minimum real estate requirements for a proposed project as required by ER 405-1-12, Draft Chapter 12. The Real Estate Supplement/Plan (RES/REP) contains a description of the area; the acreage and proposed estates, including any non-standard estates, and the reasons therefore; a discussion of any land owned by the Federal government, the Local Sponsor or any public entity; an estimate of the Public Law 91-646 relocation; the Baseline Cost Estimate for real estate; a discussion of the Local Sponsor's ability to acquire LERRD; a discussion of mineral activity, if any and the attitude of landowner; a detailed schedule of land acquisition; and at a minimum a preliminary assessment of facilities/utilities to be relocated; and any other relevant real estate

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information appropriate for the project.

SCB--- *LRR-Gross Appraisal Report:* A detailed, supported appraisal of the collective real estate easement requirements and the impacts of the project or selective portion thereof, including review and approval, as require by ER 405-1-12, (Chapter 4 and Draft Chapter 12) and policy guidance.

SCC--- *LRR-Preliminary Real Estate Acquisition Maps:* The initial set of maps and drawings that delineate the real estate acquisition lines based on technical design drawings developed during the preparation of the LRR. Reflects the minimum real estate required for project purposes.

SCD--- *LRR-Physical Takings Analysis:* A written legal opinion as to whether flooding estimated to be induced by the construction, operation or maintenance of the proposed project will rise to the level of a taking of an interest in real property for which just compensation must be paid to the owner of the real property impacted by such induced flooding. The opinion describes the analysis of relevant information regarding the depth, frequency, duration, velocity and extent of such inducted flooding, as well as relevant state and federal law, and presents a conclusion on the physical occupation taking issue.

SCE--- *LRR-Preliminary Attorney's Opinion of Compensability:* A preliminary legal opinion on whether a provision of a substitute facility is required in the Fifth Amendment as compensation for a facility/utility being acquired for a project. The opinion makes findings on whether the owner has a compensable interest, whether the owner has the legal duty to continue to maintain and operate the facility/utility, and whether that federal law requires the provision of a substitute facility/utility rather than a mere payment of the market value for the property acquired. The preliminary legal opinion differs from the final legal opinion only in it's acceptance as fact of the owner's statement of it's interest in the property, without a search of property records.

SCF--- *LRR-Rights of Entry:* Documents which evidence permission from a landowner to temporarily use his/her land for a specific time and purpose. Obtained for purposes of environmental investigations, cultural assessments, core sampling, surveys, exploration, etc. Can be obtained by the Government, Contractor, or the Local Sponsor.

SCG--- *LRR-All Other Real Estate Analyses/Documents:* All other appropriate real estate documents determined to be needed on a case by case basis, including, but not limited to, preliminary title reports, plat maps, county recorders data, detailed land acquisition schedules, etc. consistent with the scope of the LRR.

SD---- *LRR-Environmental Studies Documents (EA, EIS, SEIS, etc.):* Existing NEPA documents prepared during the Feasibility Phase are reviewed. If there has been a change in the project since the Feasibility Phase, a supplemental NEPA document is to be

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prepared, fully coordinated, with all necessary state clearances obtained, consistent with the scope of the LRR, in accordance with the guidance found in ER 1105-2-100 and ER 200-2-2.

SDA--- LRR-Minutes of Scoping Meetings: Record of discussions with the public and resource agencies that define the environmental concerns related to the proposed action.

SDB--- LRR-Biological Assessment: Report evaluating the potential effects of an action on listed endangered / threatened species and proposed special and designated or critical habitat. Utilized by US Fish and Wildlife Service in determining whether formal consultation or a conference is required.

SDC--- LRR-Environmental Assessment (EA) or Findings Of No Significant Impact (FONSI): Documents required by the National Environmental Policy Act of 1969, (NEPA) that evaluates the impacts, shown in the form of an EA, and the conclusion that no significant impacts are expected, (FONSI). If a FONSI cannot be supported, an EIS is required.

SDD--- LRR-Environmental Impact Statement (EIS), or Supplemental Environmental Impact Statement (SEIS): A document required by the National Environmental Policy Act of 1969 (NEPA) that provides a detailed evaluation of the significant impacts of a proposed action, presents a detailed alternative analysis, and proposes possible mitigation actions. If the scope of the project has changed, or if new significant environmental impacts are identified, the EIS will be revised in the form of a Supplemental EIS, or SEIS.

SDE--- LRR-Coordination Documents with Other Agencies: Record of discussions with the public and resource agencies that define the environmental concerns related to the proposed action.

SDF--- LRR-Resource Inventory Report: An inventory of the natural resources that are located within a defined geographical area in which a proposed action would occur. Also includes a section on the needs and opportunities for improvement of natural resources within that area.

SDG--- LRR-Mitigation Analysis Report: A detailed evaluation of possible actions that would offset unavoidable impacts associated with a proposed action.

SDH--- LRR-Fish and Wildlife Coordination Act Report: A biological evaluation consistent with the scope of the LRR prepared by the US Fish and Wildlife Service detailing the impacts of a proposed action and alternative actions and providing recommendations for minimizing or mitigating any adverse impacts.

SDI--- LRR-Section 404 (b)(1) Analysis Report: A report required by the Clean Water Act which presents an analysis of water quality impacts associated with the placement of fill or dredged material in the waters of the United States consistent.

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SDJ--- LRR-401 State Water Quality Certification: Certification by the State that a proposed action will not result in a violation of state water quality criteria.

SDK--- LRR-Record of Decision (ROD): A document required by NEPA in cases where EIS's are prepared that provides a history of actions taken to evaluate project impacts and describes all compliance actions taken. Signifies compliance with NEPA.

SDL--- LRR-Section 103 Evaluation: A report required by the Marine Protection, Research, and Sanctuaries Act which evaluates the impacts associated with the transportation of dredged material to the ocean for the purpose of disposal.

SDM--- LRR-Statement of Findings (SOF): A comprehensive summary of all environmental coordination and record of environmental compliance prepared in instances when an EIS is not required. In those cases when an EIS is prepared, the ROD replaces the SOF.

SDN--- LRR-Coastal Zone Management Consistency Determination Report: A determination by a State that a proposed action is consistent with the requirements of the State Coastal Zone Management Plan.

SDO--- LRR-All Other Environmental Documents: All other appropriate environmental documents determined to be needed on a case by case basis consistent with the scope of the LRR.

SE---- ***LRR-HTRW Analysis/Report:*** A report summarizing the hazardous/toxic/radiological wastes occurrences within and nearby the project area consistent with the scope of the LRR. It includes a determination of the nature and extent of contamination and a qualitative analysis of the impacts of any contamination in the absence of response actions. It also includes a preliminary identification of potential source areas, contaminant release mechanisms, exposure routes, potentially exposed populations, as well a determination of the non-numerical risk or potential adverse health effects for the identified potential receptors, and an evaluation of the environmental consequences of all storage, use generation, and disposal on the property.

SEA--- LRR-HTRW Assessment Report: A description of existing and past land uses, based on historical records and other public documentation, evaluated to determine the potential presence of any HTRW. The evaluation should include the potential impacts of known HTRW sites in the vicinity.

SEB--- LRR-HTRW Site Inspection Report: A report based on visual surveys of possible project sites made to determine the potential for HTRW.

SEC--- LRR-HTRW Remedial Investigations: The results of the investigations necessary to determine the extent of HTRW contaminants in relation to alternative project features and

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adjacent lands that could be impacted by these features. These investigations are based in part on preliminary field explorations.

SED--- LRR-All Other HTRW Documents: All other appropriate HTRW documents determined to be needed on a case by case basis consistent with the scope of the LRR.

SF---- **LRR-Cultural Resource Studies Documents:** Intensive surveys and inventories, if required or not previously conducted earlier, accomplished in the area of potential effect of the recommended plan or authorized project consistent with the scope of the LRR.. The results of these investigations serve as a basis for the formulation of plans for the management of historic properties prior to or during the construction and operational stages of the project.

SFA--- LRR-Survey Field Report: Investigations formulated within a research strategy tailored to insure adequate coverage of the environmental zones within alternative plan impact areas and provide such information necessary to address project concerns. Sampling strategy will also consider costs of survey with respect to the number of viable alternative plans and the extent of the known area of potential effects.

SFB--- LRR-Data Collection and Analysis Report: A brief description of the identified and predicted historic properties which would be impacted by the alternative plans that will be included in the LRR Report and NEPA documents. Historic resource considerations that may influence the plan recommendations would be clearly set forth in the LRR Report.

SFC--- LRR-National Register Eligibility: Documentation that determines the eligibility of properties for the National Register of Historic Places.

SFD--- LRR-No Effects Determination: Documents that determines when a project will have a "no effect" on historic properties.

SFE--- LRR-No Adverse Effects Determination: Documents that identify historic properties whose values lie in their contribution to archeological, historic or architectural research, and which can be substantially preserved through the conduct of appropriate research in accordance with applicable standards and guidelines.

SFF--- LRR-Mitigation Plan Report: Documents that determine the need for mitigating adverse effects on historic properties listed or eligible for listing on the National Register of Historic Places, and includes plans and cost estimate for mitigation or other treatment of historic properties affected by the project.

SFG--- RR-Memorandum of Agreement: If the identification of historic properties and project impacts cannot be accomplished in a timely manner for consideration in a NEPA document or other Report, a Memorandum of Agreement (MOA) can be developed between the

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District the State Historic Properties Officer (SHPO), and the Advisory Council on Historic Preservation and other consulting parties to specify the processes by which required surveys, testing, evaluation effects determination, mitigation planning, and coordination will be achieved.

SFH--- LRR-One Percent Waiver: Should the estimated cost of the mitigation exceed one percent of the total estimated Federal appropriation required for construction of a project and Congress has not specifically authorized expenditures in excess of this amount, a waiver request in the form of a letter report will be submitted through channels to HQUSACE. HQUSACE shall review the waiver request and prepare any additional documentation for approval by the Chief of Engineers. The waiver shall then be submitted to the Secretary of the Interior, through the Department Consulting Archeologist, for concurrence and Congressional notification.

SFI--- LRR-All Other Cultural Resources Studies/Reports: All other appropriate cultural resources documents determined to be needed on a case by case basis consistent with the scope of the LRR.

SG---- ***LRR-Cost Estimates:*** This includes all deliverables related to preparation of life cycle project cost estimates needed to support the Report, and to prepare the baseline project cost estimate consistent with the scope of the LRR. These estimates will include both Federal and non Federal costs for construction, real estate, engineering and design, construction management, HTRW investigations and remediation, operation and maintenance, replacement repairs and rehabilitation of alternatives and the recommended project. Revisions to the estimates prepared for the draft report and comparative cost estimates used for alternative and incremental analyses are also included. In addition, this product will include the cost of the preparation of any cost estimate updates.

SGA--- LRR-Study Cost Estimate: This includes all deliverables related to the preparation of revisions for the Reevaluation study cost estimates.

SGB--- LRR-PE&D Cost Estimate: This includes all deliverables related to the preparation and revisions of the PE&D cost estimate, for the Federal cost for all planning, engineering and design from the date of the Division Commanders Notice to the award of the first Federal construction contract.

SGC--- LRR-Project Cost Estimate: This includes all deliverables related to preparation of project cost estimates needed to support the LRR. These estimates will include both Federal and non Federal costs for construction, real estate, engineering and design, cultural resources, construction management, HTRW investigations and remediation of potential projects. Comparative cost estimates used for alternative and incremental analyses are also included.

SGD--- LRR-OMRR&R Cost Estimate: This includes all deliverables related to the preparation of the OMRR&R cost estimate. Comparative estimates of the life cycle project costs used for alternative and incremental analyses are included.

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SGE--- LRR-Fully Funded Cost Estimate: The development of or revisions to the project cost estimate that has been fully funded through to the completion of the project. Used to support the Project Management Plan and other upward reporting requirements.

SGF--- LRR-All Other Cost Estimates: All other appropriate cost estimate documents determined to be needed on a case-by-case basis consistent with the scope of the LRR.

SH--- ***LRR-Public Involvement Documents:*** Notices of meetings, meeting summaries, copies of pertinent letters and other items appropriate to public involvement.

SHA--- LRR-Notice of Public Meeting(s): Letters, notices, newspaper articles, and radio announcements to inform the public of public meetings on the proposed project.

SHB--- LRR-Minutes of Public Meeting(s): Verbal record and written transcripts of the record taken at the public meeting(s).

SHC--- LRR-Public Comments Report: A brief summary of the comments taken at all of the public meetings and workshops.

SHD--- LRR-Newsletters: Periodic publications distributed to interested parties to inform the public as to the study progress.

SHE--- LRR-All Other Public Involvement Documents: All other appropriate public involvement documents determined to be needed on a case by case basis consistent with the scope of the LRR.

SI--- ***LRR-Plan Formulation and Evaluation Report:*** An intermediate report prepared consistent with the scope of the LRR to document the formulation process when required for review or coordination. Can be used as an appendix for the main LRR.

SJ--- ***LRR-Final Report Documentation:*** A final report on the LRR prepared following the guidance in ER 1105-2-100 consistent with the scope of the LRR.

SJA--- LRR-Review Conference Documents: Memorandum For the Record documenting the issues discussed and decisions reached at the LRR Review Conference. Prepared by the District and forwarded through MSC to HQUSACE for approval.

SJB--- LRR-In-House Review Comments: Letters received in response to the review of the draft LRR by the agencies and the public. The District also prepares responses to comments for inclusion in the final LRR.

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SJC--- LRR-Public Review Comments: Letters received in response to the review of the draft LRR by the agencies and the public. The District also prepares responses to comments for inclusion in the final LRR.

SJD--- LRR-Project Guidance Memorandum (PGM): Directive guidance for remaining work to be accomplished to obtain agency approval of the final LRR. The Project Guidance Memorandum is prepared by HQUSACE.

SJE--- LRR-All Other LRR Documents: All other appropriate report documents determined to be needed on a case by case basis consistent with the scope of the LRR.

SK---- RESERVED FOR FUTURE HQUSACE USE

SL---- ***LRR-Washington Level Report Approval:*** The final LRR, after completion of all levels of review, for submittal to the Congress.

SLA--- LRR-Policy Review Approval: A written assessment of the final LRR, prepared by the Washington Level Review Center, to document the LRR's compliance with current policy.

SLB--- LRR-Chief's Report (PAC ONLY): A brief summary of the LRR, signed by the Chief of Engineers, to transmit recommendations to the Assistant Secretary of the Army for Civil Works, ASA(CW).

SLC--- LRR-OMB Approved Report (PAC ONLY): Letter from OMB to ASA(CW) expressing the Administration's position regarding transmitting the LRR to Congress for Authorization.

SLD--- LRR-ASA(CW) Report Approval: Letter from ASA(CW) transmitting the LRR and ASA(CW)'s recommendation to Congress.

SM---- ***LRR-All Other Studies/Investigations:*** All other appropriate studies and investigations consistent with the scope of the LRR determined to be needed on a case by case basis.

SN---- ***LRR-Damages Assessed AE Contractors Documents:*** The documents that determine and assess the liability for inadequate AE efforts.

SO---- ***LRR-Management Documents:*** All of the documents consistent with the scope of the LRR related to the management of the LRR, including AE contract administration and in-house control.

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SOA--- LRR-AE Contract Documents: The negotiation, award and contract administration documents for the utilization of AE contractors to complete, or assist in the completion of, other LRR products, as determined on a case-by-case basis.

SOB--- LRR-Study Funds Control Documents: Internal funds control documents for the allocation and management of the Study.

SOC--- LRR-Trip Reports: Written trip reports that document the initial site visit, meetings with the potential local sponsor, and other significant trips that effect the scope, cost or schedule of the LRR or the project.

SOD--- LRR-Coordination Documents: Copies of letters exchanged with the local sponsor that affect study costs, scopes and/or schedules, official correspondence with higher authority on similar subjects, internal memoranda which bear on significant study elements and, in general, any other correspondence which affects significant aspects of the study.

SOE--- LRR-Minutes of Technical Review Conference (TRC): The Technical aspects of the GRR Report are reviewed and comments presented at a Technical Review Conference with the District, MSC and HQUSACE.

SOF--- LRR-All Other Management Documents: All other appropriate management documents determined to be needed on a case by case basis consistent with the scope of the LRR.

T----- *Project Design Memorandum (PDM):* A Project Design Memorandum may be completed based on the most current Feasibility Study or Reevaluation Report, in order to update the technical basis for the report before Plans and Specifications are initiated. The scope of the Project Design Memorandum (PDM) encompasses the entire project, but usually only includes an update of the social and economic aspects of the project.

TA---- *PDM-Engineering Analysis/Report:* Those detailed design activities necessary to update the cost estimate commensurate with current standards prior to the preparation of Plans and Specifications.

TAA--- PDM-Surveys and Mapping, Except for Real Estate: Available information, as well as additional field information, topographic, real estate and other maps are obtained and prepared and made available to the project designers. Sources of the mapping are the USGS, State and local government planning agencies, as well as the potential local sponsor.

TAB--- PDM-Site Development Analysis/Report: This report is generally required only on major projects where the site can not be selected based on an initial field inspection or evaluation

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of existing data, but will require additional field investigations and possibly more detailed hydraulic analysis.

TAC--- PDM-Hydrology and Hydraulic Studies Report: A report that reviews and updates the H&H design. Typical studies in this phase include: computer based HEC-1 and HEC-2 analysis, quantitative sediment transport analysis, multi-dimensional flow modeling, etc. The results of the work is incorporated into the PDM-report, effecting structural, site development and other technical divisions.

TAD--- PDM-Engineering and Design Analysis Report with Preliminary Drawings: Detailed engineering design and analysis as needed from structural, site development and other technical divisions, with preliminary drawings that can be directly converted to the construction Plans and Specifications.

TAE--- PDM-Geotechnical Studies Report: Complete field exploration, laboratory and field testing related to obtaining necessary geologic and soil information on all aspects of the project, including the identification of borrow and material sources. Complete all engineering studies necessary to go directly to the preparation of plans and specifications, such as boring logs and soil test results.

TAF--- PDM-Model Studies: Mathematical or physical models of the project area that are used to develop design parameters and other criteria.

TAG--- PDM-All Other Engineering Documents: All other appropriate engineering documents determined to be needed on a case by case basis.

TB---- ***PDM-Socioeconomic Analysis/Report:*** A report prepared in accordance with ER 1106-2-100 containing a brief update analysis of a water resource problem, including the social and demographic characteristics of the community in which the problem occurs, and a discussion of the most effective solution to that problem as recommended by the Feasibility Report or the Reevaluation Report.

TBA--- PDM-Economic Analysis/Report: An update of the "with" and "without" project average annual damages and benefits for the selected alternative, based on current economic policy.

TBB--- PDM-Social Studies/Report: Using available information, an update of the general socio-economic conditions of the project area, and the effects that the recommended plan will have.

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TBC--- PDM-Institutional Studies/Report: An brief update of the assessment of the legal and financial capabilities of the potential local sponsor to participate in a Federal Project, from in-kind work, cash payments, and long term Operations, Maintenance, Rehabilitation, Repair and Replacement.

TBD--- PDM-Ability to Pay Report: Based on Section 103 M of WRDA 86, ER 1105-2-100, an update of the analysis that determines the potential local sponsor eligibility to reduce their cost sharing responsibilities based local economic conditions. If there is a reduction in their cost share due to their inability to pay, the changes will be outlined in the terms of the PCA.

TBE--- PDM-All Other Socioeconomic Analysis Documents: All other appropriate socioeconomic documents determined to be needed on a case by case basis.

TC---- ***PDM-Real Estate Analysis/Document:*** All written real estate memoranda, opinions, reports and other documents as required on a project-by project basis.

TCA--- ***PDM-Real Estate Supplement/Plan:*** The portion of the PDM that outlines the minimum real estate requirements for a proposed project as required by ER 405-1-12, Draft Chapter 12. The Real Estate Supplement/Plan (RES/REP) contains a description of the area; the acreage and proposed estates, including any non-standard estates, and the reasons therefore; a discussion of any land owned by the Federal government, the Local Sponsor or any public entity; an estimate of the Public Law 91-646 relocation; the Baseline Cost Estimate for real estate; a discussion of the Local Sponsor's ability to acquire LERRD; a discussion of mineral activity, if any and the attitude of landowner; a detailed schedule of land acquisition; and at a minimum a preliminary assessment of facilities/utilities to be relocated; and any other relevant real estate information appropriate for the project.

TCB--- ***PDM-Gross Appraisal/Report:*** A detailed, supported appraisal of the collective real estate easement requirements and the impacts of the project or selective portion thereof, including review and approval, as require by ER 405-1-12, (Chapter 4 and Draft Chapter 12) and policy guidance.

TCC--- ***PDM-Preliminary Real Estate Acquisition Maps:*** The initial set of maps and drawings that delineate the real estate acquisition lines based on technical design drawings developed during the preparation of the PDM. Reflects the minimum real estate required for project purposes.

TCD--- ***PDM-Physical Takings Analysis:*** A written legal opinion as to whether flooding estimated to be induced by the construction, operation or maintenance of the proposed project will rise to the level of a taking of an interest in real property for which just compensation

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must be paid to the owner of the real property impacted by such induced flooding. The opinion describes the analysis of relevant information regarding the depth, frequency, duration, velocity and extent of such induced flooding, as well as relevant state and federal law, and presents a conclusion on the physical occupation taking issue.

TCE--- *PDM-Preliminary Attorney's Opinion of Compensability:* A preliminary legal opinion on whether a provision of a substitute facility is required in the Fifth Amendment as compensation for a facility/utility being acquired for a project. The opinion makes findings on whether the owner has a compensable interest, whether the owner has the legal duty to continue to maintain and operate the facility/utility, and whether that federal law requires the provision of a substitute facility/utility rather than a mere payment of the market value for the property acquired. The preliminary legal opinion differs from the final legal opinion only in its acceptance as fact of the owner's statement of its interest in the property, without a search of property records.

TCF--- *PDM-Rights of Entry:* Documents which evidence permission from a landowner to temporarily use his/her land for a specific time and purpose. Obtained for purposes of environmental investigations, cultural assessments, core sampling, surveys, exploration, etc. Can be obtained by the Government, Contractor, or the Local Sponsor.

TCG--- *PDM-All Other Real Estate Analyses/Documents:* All other appropriate real estate documents determined to be needed on a case by case basis including, but not limited to, preliminary title reports, plat maps, county recorders data, detailed land acquisition schedules, cost estimates, etc..

TD--- *PDM-Environmental Studies Documents (EA, EIS, SEIS, etc.):* Existing NEPA documents prepared during the Feasibility Phase/Reevaluation Phase are reviewed to determine adequacy. If there has been a change in the project since the earlier studies, a supplemental NEPA document is to be prepared, fully coordinated, with all necessary state clearances obtained, in accordance with ER 1105-2-100 and ER 200-2-2.

TDA--- *PDM-Minutes of Scoping Meetings:* Record of discussions with the public and resource agencies that define the environmental concerns related to the proposed action.

TDB--- *PDM-Biological Assessment:* Report evaluating the potential effects of an action on listed endangered / threatened species and proposed special and designated or critical habitat. Utilized by US Fish and Wildlife Service in determining whether formal consultation or a conference is required.

TDC--- *PDM-Environmental Assessment (EA) or Findings Of No Significant Impact (FONSI):* Documents required by the National Environmental Policy Act of 1969, (NEPA) that

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evaluates the impacts, shown in the form of an EA, and the conclusion that no significant impacts are expected, (FONSI). If a FONSI cannot be supported, an EIS is required.

TDD--- PDM-Environmental Impact Statement (EIS), or Supplemental Environmental Impact Statement (SEIS): A document required by the National Environmental Policy Act of 1969 (NEPA) that provides a detailed evaluation of the significant impacts of a proposed action, presents a detailed alternative analysis, and proposes possible mitigation actions. If the scope of the project has changed, or if new significant environmental impacts are identified, the EIS will be revised in the form of a Supplemental EIS, or SEIS.

TDE--- PDM-Coordination Documents with Other Agencies: Record of discussions with the public and resource agencies that define the environmental concerns related to the proposed action.

TDF--- PDM-Resource Inventory Report: An inventory of the natural resources that are located within a defined geographical area in which a proposed action would occur. Also includes a section on the needs and opportunities for improvement of natural resources within that area.

TDG--- PDM-Mitigation Analysis Report: A detailed evaluation of possible actions that would offset unavoidable impacts associated with a proposed action.

TDH--- PDM-Fish and Wildlife Coordination Act Report: A detailed biological evaluation prepared by the US Fish and Wildlife Service detailing the impacts of a proposed action and alternative actions and providing recommendations for minimizing or mitigating any adverse impacts.

TDI--- PDM-Section 404 (b)(1) Analysis Report: A report required by the Clean Water Act which presents an analysis of water quality impacts associated with the placement of fill or dredged material in the waters of the United States.

TDJ--- PDM-401 State Water Quality Certification: Certification by the State that a proposed action will not result in a violation of state water quality criteria.

TDK--- PDM-Record of Decision (ROD): A document required by NEPA in cases where EIS's are prepared that provides a history of actions taken to evaluate project impacts and describes all compliance actions taken. Signifies compliance with NEPA.

TDL--- PDM-Section 103 Evaluation: A report required by the Marine Protection, Research, and Sanctuaries Act which evaluates the impacts associated with the transportation of dredged material to the ocean for the purpose of disposal.

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TDM--- PDM-Statement of Findings (SOF): A comprehensive summary of all environmental coordination and record of environmental compliance prepared in instances when an EIS is not required. In those cases when an EIS is prepared, the ROD replaces the SOF.

TDN--- PDM-Coastal Zone Management Consistency Determination Report: A determination by a State that a proposed action is consistent with the requirements of the State Coastal Zone Management Plan.

TDO--- PDM-All Other Environmental Documents: All other appropriate environmental documents determined to be needed on a case by case basis.

TE---- ***PDM-HTRW Studies/Report:*** A report summarizing the hazardous/toxic/radiological wastes occurrences within and nearby the project area. It includes a determination of the nature and extent of contamination and a qualitative analysis of the impacts of any contamination in the absence of response actions. It also includes a preliminary identification of potential source areas, contaminant release mechanisms, exposure routes, potentially exposed populations, as well a determination of the non-numerical risk or potential adverse health effects for the identified potential receptors, and an evaluation of the environmental consequences of all storage, use generation, and disposal on the property.

TEA--- PDM-HTRW Assessment Report: A description of existing and past land uses, based on historical records and other public documentation, evaluated to determine the potential presence of any HTRW. The evaluation should include the potential impacts of known HTRW sites in the vicinity.

TEB--- PDM-HTRW Site Inspection Report: A report based on visual surveys of possible project sites made to determine the potential for HTRW.

TEC--- PDM-HTRW Remedial Investigations: The results of the investigations necessary to determine the extent of HTRW contaminants in relation to alternative project features and adjacent lands that could be impacted by these features. These investigations are based in part on preliminary field explorations.

TED--- PDM-All Other HTRW Documents: All other appropriate HTRW documents determined to be needed on a case by case basis.

TF---- ***PDM-Cultural Resource Studies Documents:*** Intensive surveys and inventories, if required or not previously conducted earlier, accomplished in the area of potential effect of the recommended plan or authorized project. The results of these investigations serve as a basis for the formulation of plans for the management of historic properties prior to or during the construction and operational stages of the project.

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TFA--- PDM-Survey Field Report: Investigations formulated within a research strategy tailored to insure adequate coverage of the environmental zones within alternative plan impact areas and provide such information necessary to address project concerns. Sampling strategy will also consider costs of survey with respect to the known area of potential effects.

TFB---PDM-Data Collection and Analysis Report: A brief description of the identified and predicted historic properties which would be impacted by the recommended plan that will be included in the PDM-and NEPA documents. Historic resource considerations that may influence the plan recommendations would be clearly set forth in the PDM.

TFC--- PDM-National Register Eligibility: Documentation that determines the eligibility of properties for the National Register of Historic Places.

TFD--- PDM-No Effects Determination: Documents that determines when a project will have a "no effect" on historic properties.

TFE--- PDM-No Adverse Effects Determination: Documents that identify historic properties whose values lie in their contribution to archeological, historic or architectural research, and which can be substantially preserved or avoided through the conduct of appropriate research in accordance with applicable standards and guidelines.

TFF--- PDM-Mitigation Plan Report: Documents that determine the need for mitigating adverse effects on historic properties listed or eligible for listing on the National Register of Historic Places, and includes plans and cost estimate for mitigation or other treatment of historic properties affected by the project.

TFG--- PDM-Memorandum of Agreement: If the identification of historic properties and project impacts cannot be accomplished in a timely manner for consideration in a NEPA document or other Report, a Memorandum of Agreement (MOA) can be developed between the District the State Historic Properties Officer (SHPO), and the Advisory Council on Historic Preservation and other consulting parties to specify the processes by which required surveys, testing, evaluation effects determination, mitigation planning, and coordination will be achieved.

TFH--- PDM-One Percent Waiver: Should the estimated cost of the mitigation exceed one percent of the total estimated Federal appropriation required for construction of a project and Congress has not specifically authorized expenditures in excess of this amount, a waiver request in the form of a letter report will be submitted through channels to HQUSACE. HQUSACE shall review the waiver request and prepare any additional documentation for approval by the Chief of Engineers. The waiver shall then be submitted to the Secretary of the Interior, through the Department Consulting Archeologist, for concurrence and Congressional notification.

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TFI--- PDM-All Other Cultural Resources Studies/Reports: All other appropriate cultural resources documents determined to be needed on a case by case basis.

TG---- *PDM-Cost Estimates:* This includes all deliverables related to preparation of life cycle project cost estimates needed to support the Report. These estimates will include both Federal and non Federal costs for construction, real estate, engineering and design, construction management, HTRW investigations and remediation, operation and maintenance, replacement repairs and rehabilitation of alternatives and the recommended project. Revisions to the estimates prepared for the report and comparative cost estimates used for alternative and incremental analyses are also included. In addition, this product will include the cost of the preparation of any cost estimate updates.

TGA--- PDM-Cost Estimate: This includes all deliverables related to the preparation of the cost of preparing the PDM.

TGB--- PDM-PE&D Cost Estimate: This includes all deliverables related to the preparation and revisions of the PE&D cost estimate, for the Federal cost for all planning, engineering and design from the date of the Division Commanders Notice to the award of the first Federal construction contract.

TGC--- PDM-Project Cost Estimate: This includes all deliverables related to preparation of project cost estimates needed to support the Report. These estimates will include both Federal and non Federal costs for construction, real estate, engineering and design, cultural resources, construction management, HTRW investigations and remediation of potential projects. Comparative cost estimates used for alternative and incremental analyses are also included.

TGD--- PDM-OMRR&R Cost Estimate: This includes all deliverables related to the preparation of the OMRR&R cost estimate. Comparative estimates of the life cycle project costs used for alternative and incremental analyses are included.

TGE--- PDM-Fully Funded Cost Estimate: The development of or revisions to the project cost estimate that has been fully funded through to the completion of the project. Used to support the Project Management Plan and other upward reporting requirements.

TGF--- PDM-All Other Cost Estimates: All other appropriate cost estimate documents determined to be needed on a case-by-case basis.

TH---- *PDM-Final Report Documentation:* A final Project Design Memorandum Report prepared following the guidance in ER 1110-2-1150.

THA--- PDM-Minutes of Review Conference: Memorandum For the Record prepared following the guidance in ER 1110-2-1150 documenting the issues discussed and decisions reached at the PDM-Review Conference.

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THB--- PDM-In-House Review Comments: In-house comments in response to the review of the final PDM by other agencies and the public.

THC--- PDM-Public Review Comments: Letters received in response to the review of the final PDM by other agencies and the public. The District also prepares responses to comments for inclusion in the final PDM.

THD--- PDM-All other Report Documents: All other appropriate report documents determined to be needed on a case by case basis.

TI---- *PDM-All Other Studies/Investigations:* All other appropriate studies and investigations determined to be needed on a case by case basis.

TJ---- *PDM-Damages Assessed AE Contractors Documents:* The documents that determine and assess the liability for inadequate AE efforts.

TK---- *PDM-Management Documents:* All of the documents related to the management of the Project Design Memorandum, including AE contract administration and in-house control.

TKA--- PDM-AE Contract Documents: The negotiation, award and contract administration documents for the utilization of AE contractors to complete, or assist in the completion of, other PE&D AE Contract products, as determined on a case-by-case basis.

TKB--- PDM-Coordination Documents: Engineering schedule, E&D estimate, status reports, coordination with real estate, planning, operations, construction, plus local sponsor. The final deliverable which is the PDM.

TKC--- PDM-Minutes of Technical Review Conference (TRC): The Technical aspects of the PDM are reviewed and comments presented at a Technical Review Conference with the District, MSC and HQUSACE.

TKD--- PDM-All Other Management Documents: All other appropriate management documents determined to be needed on a case by case basis.

U----- *Feature Design Memorandum (FDM):* A Feature Design Memorandum may be completed in order to update the technical basis for a particular project feature or portion of the project before Plans and Specifications are initiated. The Scope of the Feature Design Memorandum (FDM) usually does not include any discussion of the social and economic aspects of the project.

UA---- *FDM-Engineering Analysis/Report:* Those detailed design and field investigations activities necessary to finalize the design of a particular project feature and to gain additional information for the preparation of the plans and specifications.

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UAA--- FDM-Surveys and Mapping, Except for Real Estate: Using available information, as well as additional field information, topographic, real estate and other maps are obtained and prepared and made available to the project designers. Sources of the mapping are the USGS, State and local government planning agencies, as well as the potential local sponsor.

UAB--- FDM-Site Development Analysis/Report: This report is generally required only on major projects where the site can not be selected based on an initial field inspection or evaluation of existing data, but will require additional field investigations and possibly more detailed hydraulic analysis.

UAC--- FDM-Hydrology and Hydraulic Studies Report: Perform detailed hydraulic and hydrology design studies necessary to completely design the overall project for the final cost estimates and plans and specifications. Typical studies in this phase include: physical model testing, quantitative sediment analysis, multi-dimensional flow modeling, etc.

UAD--- FDM-Engnr. and Design Anal. Report with Prelimin. Drawings: Detailed engineering design and analysis with preliminary drawings that can be directly converted to construction plans and specifications.

UAE--- FDM-Geotechnical Studies/Analysis/Report: Complete field exploration, laboratory and field testing to obtain necessary geologic and soil information on all aspects of the project, including the identification of borrow and material sources. Complete all engineering studies necessary to go directly to the preparation of plans and specifications.

UAF--- FDM-Model Studies: Mathematical or physical models of the project area that are used to develop design parameters and other criteria.

UAG--- FDM-All Other Engineering Documents: All other appropriate engineering documents determined to be needed on a case by case basis.

UB---- RESERVED FOR FUTURE HQUSACE USE

UC---- ***FDM-Real Estate Analysis/Documents:*** All written real estate memoranda, opinions, reports and other documents required on a project-by project basis.

UCA--- ***FDM-Real Estate Supplement/Plan:*** The portion of the FDM that outlines the minimum real estate requirements for a proposed project as required by ER 405-1-12, Draft Chapter 12. The Real Estate Supplement/Plan (RES/REP) contains a description of the area; the acreage and proposed estates, including any non-standard estates, and the reasons therefore; a discussion of any land owned by the Federal government, the Local Sponsor or any public entity; an estimate of the Public Law 91-646 relocation; the Baseline Cost Estimate for real estate; a discussion of the Local Sponsor's ability to acquire LERRD; a discussion of mineral activity, if any and the attitude of landowner; a detailed schedule of land acquisition; and at a minimum a

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preliminary assessment of facilities/utilities to be relocated; and any other relevant real estate information appropriate for the project.

UCB--- *FDM-Gross Appraisal Report:* A detailed, supported appraisal of the collective real estate easement requirements and the impacts of the project or selective portion thereof, including review and approval, as require by ER 405-1-12, (Chapter 4 and Draft Chapter 12) and policy guidance.

UCC--- *FDM-Preliminary Real Estate Acquisition Maps:* The initial set of maps and drawings that delineate the real estate acquisition lines based on technical design drawings developed during the preparation of the FDM. Reflects the minimum real estate required for project purposes.

UCD--- *FDM-Physical Takings Analysis:* A written legal opinion as to whether flooding estimated to be induced by the construction, operation or maintenance of the proposed project will rise to the level of a taking of an interest in real property for which just compensation must be paid to the owner of the real property impacted by such induced flooding. The opinion describes the analysis of relevant information regarding the depth, frequency, duration, velocity and extent of such inducted flooding, as well as relevant state and federal law, and presents a conclusion on the physical occupation taking issue.

UCE--- *FDM-Preliminary Attorney's Opinion of Compensability:* A preliminary legal opinion on whether a provision of a substitute facility is required in the Fifth Amendment as compensation for a facility/utility being acquired for a project. The opinion makes findings on whether the owner has a compensable interest, whether the owner has the legal duty to continue to maintain and operate the facility/utility, and whether that federal law requires the provision of a substitute facility/utility rather than a mere payment of the market value for the property acquired. The preliminary legal opinion differs from the final legal opinion only in it's acceptance as fact of the owner's statement of it's interest in the property, without a search of property records.

UCF--- *FDM-Rights of Entry:* Documents which evidence permission from a landowner to temporarily use his/her land for a specific time and purpose. Obtained for purposes of environmental investigations, cultural assessments, core sampling, surveys, exploration, etc. Can be obtained by the Government, Contractor, or the Local Sponsor.

UCG--- *FDM-All Other Real Estate Analyses/Documents:* All other real estate documents determined to be needed on a case by case basis including, but not limited to, preliminary title reports, plat maps, county recorders data, detailed land acquisition schedules, etc..

UD---- *FDM-Environmental Studies Documents (EA, EIS, SEIS, etc.):* Existing NEPA documents are reviewed to determine adequacy. If there has been a change in the project since the last environmental documentation had been approved, a supplemental NEPA

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document is to be prepared, fully coordinated, with all necessary state clearances obtained, in accordance with the guidance found in ER 1105-2-100 and ER 200-2-2.

UDA--- FDM-Minutes of Scoping Meetings: Record of discussions with the public and resource agencies that define the environmental concerns related to the proposed action.

UDB--- FDM-Biological Assessment: Report evaluating the potential effects of an action on listed endangered/threatened species and proposed special and designated or critical habitat. Utilized by US Fish and Wildlife Service in determining whether formal consultation or a conference is required.

UDC--- FDM-Environmental Assessment (EA) or Findings Of No Significant Impact (FONSI): Documents required by the National Environmental Policy Act of 1969, (NEPA) that evaluates the impacts, shown in the form of an EA, and the conclusion that no significant impacts are expected, (FONSI). If a FONSI cannot be supported, an EIS is required.

UDD--- FDM-Environmental Impact Statement (EIS), or Supplemental Environmental Impact Statement (SEIS): A document required by the National Environmental Policy Act of 1969 (NEPA) that provides a detailed evaluation if the significant impacts of a proposed action, presents a detailed alternative analysis, and proposes possible mitigation actions. If the scope of the project has changed, or if new significant environmental impacts are identified, the EIS will be revised in the form of a Supplemental EIS, or SEIS.

UDE--- FDM-Coordination Documents with Other Agencies: Record of discussions with the public and resource agencies that define the environmental concerns related to the proposed action.

UDF--- FDM-Resource Inventory Report: An inventory of the natural resources that are located within a defined geographical area in which a proposed action would occur. Also includes a section on the needs and opportunities for improvement of natural resources within that area.

UDG--- FDM-Mitigation Analysis Report: A detailed evaluation of possible actions that would offset unavoidable impacts associated with a proposed action.

UDH--- FDM-Fish and Wildlife Coordination Act Report: A detailed biological evaluation prepared by the US Fish and Wildlife Service detailing the impacts of a proposed action and alternative actions and providing recommendations for minimizing or mitigating any adverse impacts.

UDI--- FDM-Section 404 (b)(1) Analysis Report: A report required by the Clean Water Act which presents an analysis of water quality impact associated with the placement of fill or dredged material in the waters of the United States.

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UDJ--- FDM-401 State Water Quality Certification: Certification by the State that a proposed action will not result in a violation of state water quality criteria.

UDK--- FDM-Record of Decision (ROD): A document required by NEPA in cases where EIS's are prepared that provides a history of actions taken to evaluate project impacts and describes all compliance actions taken. Signifies compliance with NEPA.

UDL--- FDM-Section 103 Evaluation: A report required by the Marine Protection, Research, and Sanctuaries Act which evaluates the impacts associated with the transportation of dredged material to the ocean for the purpose of disposal.

UDM--- FDM-Statement of Findings (SOF): A comprehensive summary of all environmental coordination and record of environmental compliance prepared in instances when an EIS is not required. In those cases when an EIS is prepared, the ROD replaces the SOF.

UDN--- FDM-Coastal Zone Management Consistency Determination Report: A determination by a State that a proposed action is consistent with the requirements of the State Coastal Zone Management Plan.

UDO--- FDM-All Other Environmental Documents: All other appropriate environmental documents determined to be needed on a case by case basis.

UE---- ***FDM-HTRW Studies/Report:*** A report summarizing the hazardous/toxic/radiological wastes occurrences within and nearby the project area. It includes a determination of the nature and extent of contamination and a qualitative analysis of the impacts of any contamination in the absence of response actions. It also includes a preliminary identification of potential source areas, contaminant release mechanisms, exposure routes, potentially exposed populations, as well a determination of the non-numerical risk or potential adverse health effects for the identified potential receptors, and an evaluation of the environmental consequences of all storage, use generation, and disposal on the property.

UEA--- FDM-HTRW Assessment Report: A description of existing and past land uses, based on historical records and other public documentation, evaluated to determine the potential presence of any HTRW. The evaluation should include the potential impacts of known HTRW sites in the vicinity.

UEB--- FDM-HTRW Site Inspection Report: A report based on visual surveys of possible project sites made to determine the potential for HTRW.

UEC--- FDM-HTRW Remedial Investigations: The results of the investigations necessary to determine the extent of HTRW contaminants in relation to alternative project features and adjacent lands that could be impacted by these features. These investigations are based in part on preliminary field explorations.

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UED--- FDM-All Other HTRW Documents: All other appropriate HTRW documents determined to be needed on a case by case basis.

UF---- *FDM-Cultural Resource Studies Documents:* Intensive surveys and inventories, if required or not previously conducted earlier, accomplished in the area of potential effect of the recommended plan or authorized project. The results of these investigations serve as a basis for the formulation of plans for the management of historic properties prior to or during the construction and operational stages of the project.

UFA--- FDM-Survey Field Report: Investigations formulated within a research strategy tailored to insure adequate coverage of the environmental zones within alternative plan impact areas and provide such information necessary to address project concerns. Sampling strategy will also consider costs of survey with respect to the known area of potential effects.

UFB--- FDM-Data Collection and Analysis Report: A brief description of the identified and predicted historic properties which would be impacted by the recommended plan as presented in the FDM. Historic resource considerations that may influence the plan recommendations would be clearly set forth in the FDM Report.

UFC--- FDM-National Register Eligibility: Documentation that determines the eligibility of properties for the National Register of Historic Places.

UFD--- FDM-No Effects Determination: Documents that determines when a project will have a "no effect" on historic properties.

UFE--- FDM-No Adverse Effects Determination: Documents that identify historic properties whose values lie in their contribution to archeological, historic or architectural research, and which can be substantially preserved through the conduct of appropriate research in accordance with applicable standards and guidelines.

UFF--- FDM-Mitigation Plan Report: Documents that determine the need for mitigating adverse effects on historic properties listed or eligible for listing on the National Register of Historic Places, and includes plans and cost estimate for mitigation or other treatment of historic properties affected by the project.

UFG--- FDM-Memorandum of Agreement: If the identification of historic properties and project impacts cannot be accomplished in a timely manner for consideration in a NEPA document or other Report, a Memorandum of Agreement (MOA) can be developed between the District the State Historic Properties Officer (SHPO), and the Advisory Council on Historic Preservation and other consulting parties to specify the processes by which required surveys, testing, evaluation effects determination, mitigation planning, and coordination will be achieved.

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UFH--- FDM-One Percent Waiver: Should the estimated cost of the mitigation exceed one percent of the total estimated Federal appropriation required for construction of a project and Congress has not specifically authorized expenditures in excess of this amount, a waiver request in the form of a letter report will be submitted through channels to HQUSACE. HQUSACE shall review the waiver request and prepare any additional documentation for approval by the Chief of Engineers. The waiver shall then be submitted to the Secretary of the Interior, through the Department Consulting Archeologist, for concurrence and Congressional notification.

UFI--- FDM-All Other Cultural Resources Studies/Reports: All other appropriate cultural resources documents determined to be needed on a case by case basis.

UG---- ***FDM-Cost Estimates:*** This includes all deliverables related to preparation of life cycle project cost estimates needed to support the Report. These estimates will include both Federal and non Federal costs for construction, real estate, engineering and design, construction management, HTRW investigations and remediation, operation and maintenance, replacement repairs and rehabilitation of alternatives and the recommended project. Revisions to the estimates prepared for the report and comparative cost estimates used for alternative and incremental analyses are also included. In addition, this product will include the cost of the preparation of any cost estimate updates.

UGA--- FDM-Cost Estimate: This includes all deliverables related to the preparation of revisions to the FDM cost estimates.

UGB--- FDM-PE&D Cost Estimate: This includes all deliverables related to the preparation and revisions of the PE&D cost estimate, for the Federal cost for all planning, engineering and design from the date of the Division Commanders Notice to the award of the first Federal construction contract.

UGC--- FDM-Project Cost Estimate: This includes all deliverables related to preparation of project cost estimates needed to support the Report. These estimates will include both Federal and non Federal costs for construction, real estate, engineering and design, cultural resources, construction management, HTRW investigations and remediation of potential projects. Comparative cost estimates used for alternative and incremental analyses are also included.

UGD--- FDM-OMRR&R Cost Estimate: This includes all deliverables related to the preparation of the OMRR&R cost estimate. Comparative estimates of the life cycle project costs used for alternative and incremental analyses are included.

UGE--- FDM-Fully Funded Cost Estimate: Revisions to the project cost estimate that has been fully funded through to the completion of the project. Used to support the Project Management Plan and other upward reporting requirements.

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UGF--- FDM-All Other Cost Estimates: All other cost estimates determined to be needed on a case by case basis.

UH---- *FDM-Final Report Documentation:* A final Feature Design Memorandum Report prepared following the guidance in ER 1110-2-1150.

UHA--- FDM-Minutes of Technical Review Conference (TRC): Memorandum For the Record prepared following the guidance in ER 1110-2-1150 documenting the issues discussed and decisions reached at the FDM review conference.

UHB--- FDM-In-House Review Comments: In-house comments in response to the review of the final FDM.

UHC--- FDM-Public Review Comments: Letters received in response to the review of the final FDM by other agencies and the public. The District also prepares responses to comments for inclusion in the final FDM.

UHD--- FDM-All Other Report Documents: All other appropriate report documents determined to be needed on a case by case basis.

UI---- *FDM-All Other Studies/Investigations:* All other appropriate studies and investigations determined to be needed on a case by case basis.

UJ---- *FDM-Damages Assessed AE Contractors:* The documents that determine and assess the liability for inadequate AE efforts.

UK---- *FDM-Management Documents:* All of the documents related to the management of the Feature Design Memorandum, including AE contract administration and in-house control.

UKA--- FDM-AE Contract Documents: The negotiation, award and contract administration documents for the utilization of AE contractors to complete, or assist in the completion of, other FDM-Contract products, as determined on a case-by-case basis.

UKB--- FDM-Coordination Documents: Engineering schedule, E&D estimate, status reports, coordination with real estate, planning, operations, construction, plus local sponsor toward completion of the FDM.

UKC--- FDM-Minutes of FDM Technical Review Conference (TRC): The Technical aspects of the FDM-are reviewed and comments presented at a Technical Review Conference with the District, MSC and HQUSACE.

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UKD--- FDM-All Other Technical Management Documents: All other appropriate management documents determined to be needed on a case by case basis.

V----- RESERVED FOR FUTURE HQUSACE USE

W----- *Construction Contract(s) Documents (CC):* All of the documents that lead up to the award of Federal construction contracts, including the Plans and Specifications, Real Estate, Environmental, HTRW and Cultural Resources, and Cost Estimating investigations.

WA----- *CC-Plans and Specifications (P&S):* All of the documents that lead to the preparation and approval of the plans and specifications for Federal contracts.

WAA--- CC-Field Investigation Report: Surveys and borings for very specific areas needed to support the technical design for the development of detailed plans and specifications for a construction contract.

WAB--- CC-Plans and Specifications: Complete and detailed specifications and construction drawings to include subsurface information and special instructions for the field.

WAC--- CC-Permits for Construction: 404 permit, discharge permit, building permit, etc..

WAD--- CC-Biddability, Constructability and Operability Review Certification: Review of plans and specifications for biddability, constructability and operability.

WAE--- CC-All Other Plans and Specifications Documents: All other appropriate plans and specifications documents determined to be needed on a case by case basis.

WB----- RESERVED FOR FUTURE HQUSACE USE

WC----- *CC-Real Estate Analyses/Documents:* All of the documents that plan and describe the acquisition of the project real estate interests for project purposes.

WCA--- *CC-Real Estate Planning Documents:* Includes all products and services related to real estate acquisition planning. This includes, but is not limited to, amendments or revisions to the Real Estate Supplements/Plans; letters to Local Sponsor transmitting project real estate requirements; notices to Local Sponsor to proceed with real estate acquisition; and other related documents, etc..

WCB--- *CC-Real Estate Acquisition Documents:* Includes all products and services related to the acquisition of interests in real property by direct purchase, donation, exchange, withdrawal, reassignment or transfer. This includes maps, surveys and legal descriptions; negotiations

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documents (including the preparation of the initial offer, agreement for removal of property, consent to offer to sell real property, offer to sell real property/easement, negotiation's report, notice of acceptance of offer to sell, report on vacation of property, and agreement for mutual cancellation of contract); title evidence (including surveys of sources of title, specifications, solicitation, evaluation, negotiation, award, order for title evidence, certificate of title, policy of title insurance, abstracts of title, approval of title including preliminary title opinion, attorney's final title opinion, opinion of the Attorney General, rejection opinion, curative action, administrative waiver of title defect/encumbrance, statement concerning outstanding encumbrances, payment, and final title assembly); utility/facility relocation contracts; closing documents (including certificate of inspection and possession, disclaimer, deed to the United States, payment and closing sheet, payment, and recordation of deed); procurement of check (including voucher and schedule of payments, power of attorney for collection of specified check drawn on treasury, order to disburse under power of attorney, receipt for payment under power of attorney); and other related documents.

WCC--- *CC-Real Estate Condemnation Documents:* Includes all products and services related to the acquisition of interests in real property through eminent domain proceedings. This includes preparation of letters of submittal; complaint or declaration of taking assemblies; amendment/revetment assemblies; trial support; stipulations for reservation; requests to dismiss, stipulated settlements; reports of trials or hearings; approvals of awards; appellate recommendations; deposits of deficiencies; writs of assistance; reports of closed cases; and other related documents.

WCD--- *CC-Real Estate Inleasing Documents:* Includes all products and services related to the acquisition of real property by lease. This includes preparation, negotiation, and execution of leases; joint surveys and inspections of condition; supplemental agreements; notices of renewal; payment of rent; claims and restoration; and other related documents.

WCE--- *CC-Real Estate Appraisal Documents:* Tract appraisals, updates, revisions, market data, analyses, consultations and the review of appraisal reports.

WCF--- *CC-PL-91-646 Assistance Documents:* Includes all products, relocation assistance, and advisory services to displaced owners and/or tenants. This includes preparation of determination of availability/waiver; notices of intention to acquire; preliminary relocation data forms; processing applications for benefits including investigation reports, determinations of benefits due the applicant, and notices to applicants; payments of benefits; administrative review including preparation of appeal assemblies; and other related documents.

WCG--- *CC-Real Estate Rights of Entry/Temporary Permits:* Includes all products and services incident to obtaining the short term use of real property through permits or rights-of-entry. This includes procurement of ownership data; mapping; legal descriptions; negotiations; condemnations; and settlement of damage claims.

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WCH--- *CC-Real Estate Audit Report:* All documents associated with real estate audits including tract-by-tract verification and authentication of each real estate activity required in connection with acquisition, relocation, etc..

WCI--- *CC-Real Estate Encroachments/Trespass Documents:* Includes all products and services related to the resolution of cases of encroachment or trespass in project lands. This includes field investigations; surveys performed in connection with individual cases; negotiations; preparation and processing of conveyance instruments; boundary line agreements; litigation reports; and trial support to the Department of Justice.

WCJ--- *CC-Real Estate Disposal Documents:* Includes any action required to dispose of real property and marketable resources, except for timber, by sale, transfer of exchange. The disposal of gravel, sand, crops, hay, etc. are excluded.

WCK--- *CC-Real Estate Real Property Accountability Documents:* Establishing and maintaining formally prescribed property records for lands and capital improvements (buildings, structures, road, railway, permanent utility system).

WCL--- *CC-Real Estate Project Related Administration Documents:* All Real Estate administration documents, including the Certification of Availability of LERRD Statement describing the review of documentation to verify all rights and property have been acquired in accordance with the PCA.

WCM--- *CC-Real Estate Facility/Utility Relocations Analyses:* All Real Estate analyses, documents, or efforts associated with the determination and subsequent implementation of facility/utility relocation except for land payments for facility/utility relocations.

WCN--- *CC-Real Estate Withdrawals (Public Domain Land) Documents:* All real estate documents or efforts associated with the withdrawal of land from the public domain including negotiations with the Bureau of Land Management (BLM), drafting the public land order, or legislative withdrawal, etc..

WCO--- *CC-Real Estate Payment Documents:* Documents that support the payment of project funds, both Federal and non-Federal, for project related Lands, Easements, Rights of Way, Disposal Area, PL 91-646 payments and other project-related real estate acquisition, both permanent and temporary.

WCOA-- *CC-Land Payments:* Real Estate documents that support payment made to property owner(s) or the U.S. District Courts to purchase property.

WCOB-- *CC-PL 91646 Payments:* Payments made to property owner(s) or tenants for relocation assistance benefits under the provisions of PL 91-646.

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WCOC-- CC-Damage Payments: Documents that support the payments made to land or facility owners for claims arising from use and occupancy of real property for which fee, easement, or lesser interests were not acquired; or for payments for damage settlements under rights-of-entry.

WDOC-- CC-Other Payments: Documents that support any other real estate payments.

WCP--- CC-Real Estate Receipt Documents: Receipts from sales of buildings and improvements or timber and harvested crops sold separately from the land and receipts from sales during the construction period for excess lands, including standing timber and crops.

WCPA-- CC-Disposal Receipts-Reimbursements (CR-Lands): Receipts from sales of building and improvements or timber and harvested crops sold separately from the land.

WCPB-- CC-Disposal Receipts-General Fund (CR-Lands): Receipts from sales during the construction period of excess land, including standing timber and crops.

WCQ--- CC-Real Estate LERRD's Crediting Documents: Documents associated with the formal review and approval of LERRD credit requests and/or submissions.

WCR--- CC-Real Estate All Other Documents: All other appropriate real estate documents determined to be needed on a case-by-case-basis.

WD---- CC-Environmental Studies Documents: Existing NEPA documents are reviewed to determine their adequacy. If there has been a change in the project, a set of supplemental NEPA documents is to be prepared, fully coordinated, with all necessary state clearances obtained, in accordance with the guidance in ER 1105-2-100 and ER 200-2-2.

WDA--- CC-Coordination Documents with Other Agencies: All of the ongoing coordination documents between the Corps and other Federal and non Federal resource agencies that document the ongoing process of coordination in accordance with the Fish and Wildlife Coordination Act and NEPA.

WDB--- CC-Resource Inventory Report: An inventory of the natural resources that are located within a defined geographical area in which a proposed action would occur. Also included a section on the needs and opportunities for improvements of the natural resources within that area.

WDC--- CC-Mitigation Analysis Report: A detailed evaluation of possible actions that would offset unavoidable impacts associated with the proposed action.

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WDD--- CC-Fish and Wildlife Coordination Act Report: A detailed biological evaluation prepared by the US Fish and Wildlife Service detailing the impacts of a proposed action and alternative actions and providing recommendations for minimizing or mitigating adverse impacts.

WDE--- CC-401 State Water Quality Certification: Certification by a State that a proposed actions will not result in a violation of State (or Federal) water quality criteria.

WDF--- CC-Section 404 (b)(1) Analysis Report: A report required by the Clean Water Act which presents an analysis of water quality impacts associated with the placement of fill or dredged material into the water of the US.

WDG--- CC-Record of Decision (ROD): A document required by NEPA in cases where EIS's are prepared that provides a history of actions taken to evaluate project impacts and describes all compliance actions taken. Signifies compliance with NEPA.

WDH--- CC-Coastal Zone Mgmt. Consistency Determination Report: A determination by a State that a proposed action is consistent with the requirements of the State Coastal Zone Management Plan.

WDI--- CC-Planning RCRA Permits: The permit, administered by the EPA, that controls the storage, use and disposal of RCRA regulated materials at project construction sites.

WDJ--- CC-NPDES Permit: The permit, administered by the state on behalf of the EPA, that controls the storm water runoff at project construction sites.

WDK--- CC-Air Emissions Permits: The permit, administered by the state on behalf of the EPA, that controls the air emissions at project construction sites.

WDL--- CC-All Other Environmental Documents: All other appropriate environmental documents determined to be needed on a case by case basis.

WE---- **CC-HTRW Studies/Report:** A report summarizing the hazardous/toxic/ radiological wastes occurrences within and nearby the project area. It includes a determination of the nature and extent of contamination and a qualitative analysis of the impacts of any contamination in the absence of response actions. It also includes a preliminary identification of potential source areas, contaminant release mechanisms, exposure routs, potentially exposed populations, as well as a determination of the non-numerical risk or potential adverse health effects for the identified potential receptors, and an evaluation of the environmental consequences of all storage, use generation, and disposal on the property.

WEA--- CC-Local Sponsor HTRW Study/Report: HTRW study report prepared by the local sponsor after execution of the PCA.

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WEB--- CC-USACE HTRW Study/Report: HTRW study report prepared by USACE.

WF---- *CC-Cultural Resource Studies Documents:* Intensive surveys/inventories, if required or not previously conducted earlier, accomplished in the area of potential effect of the recommended plan or authorized project. The results of these investigation serve as the basis for formulation of plans for the management of historic properties prior to or during the construction and operational stages of the project.

WFA--- CC-Site Investigation Surveys: Investigations formulated within a research strategy tailored to insure adequate coverage of the environmental zones within the project impact areas and provide such information necessary to address project concerns. Sampling strategy will also consider costs of survey with respect to the known area of potential effects.

WFB--- CC-National Register Eligibility: Documentation that determines the eligibility of properties for the National Register of Historic Places.

WFC--- CC-No Effect Determination: Documents that determines when a project will have a "no effect" on historic properties.

WFD--- CC-No Adverse Effect Determination: Documents that identify historic properties whose values lie in their contribution to archeological, historic or architectural research, and which can be substantially preserved through the conduct of appropriate research in accordance with applicable standards and guidelines.

WFE--- CC-Mitigation Plan Report: Documents that determine the need for mitigating adverse effects on historic properties listed or eligible for listing on the National Register of Historic Places, and includes plans and cost estimate for mitigation or other treatment of historic properties affected by the project.

WFF--- CC-Memorandum of Agreement: If no MOA was developed in previous studies, a MOA with the Advisory Council and the SHPO that formulates a program that specifies the actions that the Government will take prior to or during construction to mitigate any adverse effects to National Register or eligible properties.

WFG--- CC-One Percent Waiver: Should the estimated cost of the mitigation exceed one percent of the total estimated Federal appropriation required for construction of a project and Congress has not specifically authorized expenditures in excess of this amount, a waiver request in the form of a letter report will be submitted through channels to HQUSACE. HQUSACE shall review the waiver request and prepare any additional documentation for approval by the Chief of Engineers. The waiver shall then be submitted to the Secretary of the Interior, through the Department Consulting Archeologist, for concurrence and Congressional notification.

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WFD--- CC-All Other Cultural Resources Studies/Reports: All other appropriate cultural resources determined to be needed on a case by case basis.

WG---- **CC-Cost Estimates:** This includes all deliverables related to preparation of construction contract cost estimates for the applicable set of plans and specifications, and associated construction feature. Preparation of miscellaneous comparative cost estimates and updates to the current working estimate for the project resulting from information developed in the plans and specifications are also included. This does not include preparation of the fair-cost government estimate for the contract solicitation.

WGA--- CC-Contract Cost Estimate: This includes all deliverables related to the preparation of revisions for the cost estimates for each of the construction contracts.

WGB--- CC-PE&D Cost Estimate: This includes all deliverables related to the preparation and revisions of the PE&D cost estimate, for the Federal cost for all planning, engineering and design from the date of the Division Commanders Notice to the award of the first Federal construction contract.

WGC--- CC-Project Cost Estimate: This includes all deliverables related to preparation of project cost estimates. These estimates will include both Federal and non Federal costs for construction, real estate, engineering and design, cultural resources, construction management, HTRW investigations and remediation of potential projects. Comparative cost estimates used for alternative and incremental analyses are also included.

WGD--- CC-OMRR&R Cost Estimate: This includes all deliverables related to the preparation of the OMRR&R cost estimate. Comparative estimates of the life cycle project costs used for alternative and incremental analyses are included.

WGE--- CC-Fully Funded Cost Estimate: The development of or revisions to the project cost estimate that has been fully funded through to the completion of the project. Used to support the Project Management Plan and other upward reporting requirements.

WGF--- CC-All Other Cost Estimates: All other appropriate cost estimate documents determined to be needed on a case-by-case basis.

WH---- **CC-All Other Studies/Investigations:** All other appropriate studies and investigations determined to be needed on a case by case basis.

WI---- **CC-Contract Award Documents:** The documents for the award and administration of AE contracts undertaken in order to complete, or assist in the completion of, other Construction Contract Planning products, as determined on a case-by-case basis.

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WIA--- CC-Contract Negotiation/Award Documents: The negotiation and award of contracts for physical construction towards the completion of the Project. The number and type of contracts are determined on a case-by-case basis.

WIB--- CC-CBD Announcement: This includes all deliverables related to the preparation and issuance of the Commerce Business Daily announcement of the intent to issue the construction or supply contract solicitation.

WIC--- CC-Advertised/RFP Contract: This includes all deliverables related to the final preparation, issuance, and administration of contract solicitation documents. Preparing and issuing amendments to the solicitation are also included here.

WID--- CC-Davis Bacon Wage Rates: Documents resulting for the inclusion of Davis-Bacon wage rates in the construction contracts.

WIE--- CC-Abstracts of Bids/Record of Negotiations: This includes all deliverables related to the determination of the accepted price for the contract solicitation. Bid opening, determining the low responsible bidder and assembling the abstract of bids for Invitation For Bids (IFB) solicitations are included. Price negotiations, contractor audits and all documents for Request for Proposal (RFP) solicitations are also included.

WIF--- CC-Reasonable Contract Cost Estimate: This includes all deliverables required to prepare and document the independent government fair-cost estimate of construction contract costs.

WIG--- CC-Awarded Contract: This includes all deliverables related to construction or supply contract award.

WIH--- CC-Notice to Proceed: The written notice to the contractor that directs the contractor to begin its construction effort. It also represents the beginning of the contract duration for the purposes of liquidated damages.

WII--- CC-All Other Contract Award Documents: This includes all deliverables related to the solicitation and award of contracts for project construction and not specifically identified in other sub-sub-products. All other appropriate documents determined to be needed on a case by case basis.

WJ--- CC-Engineering and Design During Construction Documents:

Review contractor submittals, assist resident engineer in developing quality assurance program, site visits to verify actual conditions to match design assumptions, clarifications to contractor questions, preparation and support for modifications, review and finalize as-built drawings and the preparation of Foundation Completion Report and/or Dam Criteria and Performance Report.

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WK---- *CC-Supervision and Administration (S&A) Documents:* All types of S&A documents resulting from activities associated with the management of construction contracts prior to and after contract award, except for those deliverables already included in Claims Management Documents and Value Engineering Change proposals. See Chapter 8 of ER 37-2-1 for detailed definitions of S&A documents.

WKA--- *CC-Project Office S&A Documents:* Includes all documents which are directly related to the operations and functions of the project field office in support of the S&A construction contracts.

WKAA-- *CC-Project Office Operations Documents:* Includes all documents which are directly related to the operations and maintenance of the project field office in support of the S&A of construction contracts.

WKAB-- *CC-All Other Project Office Documentation:* All other appropriate project office documents required for the S&A of construction contracts.

WKB--- *CC-Area Office S&A Documents:* Area office documents required for the support of the S&A of construction contracts.

WKC--- *CC-District Office S&A Documents:* All documents produced at the District in direct support of the S&A of construction contracts.

WKCA-- *CC-Technical Management S&A:* All documents resulting from construction phase technical management performed in the District.

WKCB-- *CC-All Other District Office S&A:* All other appropriate documents produced at the District in direct support of the S&A of construction contracts.

WKD--- *CC-Damages Assessed Contractor Documentation:* The full amount of damages that are assessed the contractor by the Contracting Officer for Actual or Liquidated damages.

WKDA-- *CC-Liquidated Damage Documentation:* The full amount of liquidated damages for failure to complete the contracted work within the time specified by the contract and for liquidated damages assessed any contractors under the Work Hours Act of 1962.

WKDB-- *CC-Other Damages Documentation:* The full amount of actual damages for failure to complete the contracted work within the time specified by the contract.

WL---- *CC-Contractor Earnings:* Payments made to the construction contractor based on ENG Form 93, Payment Estimate.

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WM---- *CC-Damages Assessed AE Contractors:* The documents that determine and assess the liability for inadequate AE efforts for work completed on Construction Contract Plans and Specifications.

WN---- *CC-Management Documents:* All of the documents related to the management of the preparation of the Plans and Specifications, including AE contract administration and in-house control.

WNA--- *CC-AE Contract Documents:* The negotiation, award and contract administration documents for the utilization of AE contractors to complete, or assist in the completion of, other Construction Contract products, as determined on a case-by-case basis.

WNB--- *CC-Amendments to Plans and Specifications:* During the advertisement of the contract(s), amendments may have to be processed in order to change the solicitation documents before the bid opening.

WNC--- *CC-Coordination Documents:* Engineering schedule, E&D estimate, status reports, coordination with real estate, planning, operations, construction, plus local sponsor toward completion of the plans and specifications.

WND--- *CC-All Other Management Documents:* All other appropriate management documents determined to be needed on a case by case basis.

WO---- *CC-Local Sponsor Project Coord. Team Participation Documents:* Documents resulting from the local sponsor's participation with the project coordination team.

X----- *Value Engineering Analysis Documents (VE):* This includes all deliverables required to administer the Value Engineering incentive clause of all construction and supply contracts. Administrative activities will include those associated with receipt, review, negotiation, acceptance and implementation of contractor submitted VECP's. Special testing, investigations, or other work required to be performed by the government to confirm the implementability of the VECP is also included. All products related to VE screenings and redesign efforts.

XA---- *VE-Screenings/Studies:* This includes all Value Engineering screening and studies deliverables directly associated with any project feature or element and occurring during PE&D. VE screening will be those activities to identify potential areas for value engineering action and to meet the administrative requirements for the cost effectiveness review of the project. VE studies will include those activities required to coordinate and conduct value engineering studies including the formal presentation of the study results, report preparation, implementation and documentation of VE proposal implementation.

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XB---- VE-Related Redesign: This includes all deliverables related to the redesign directly associated with an accepted and implemented Value Engineering proposal.

Y----- ***Project or Functional Element Closeout and Local Sponsor***

Assumption of OMRR&R (PC): All of the documents that support the Physical and Fiscal closeout of the project, or separable element thereof, and assumption of OMRR&R by the local sponsor. See "Local Cooperation," ER 1150-2-301, dated 30 September 1991.

YA---- PC-Physical Closeout Documents: All of the documents that support the Physical closeout of the project, or separable element thereof, and assumption of OMRR&R by the local sponsor. See "Local Cooperation," ER 1150-2-301, dated 30 September 1991.

YAA--- PC-Minutes of Final Inspection: Minutes of Final Inspection field trip with the local sponsor.

YAB--- PC-Project Dedication Ceremony: The official ceremony dedicating the project to the customer.

YAC--- PC-All Other Physical Closeout Documents: All other appropriate closeout documents determined to be needed on a case by case basis.

YB---- ***PC-Project Fiscal Closeout Documents:*** All fiscal documents related to the completion of the project. See "Local Cooperation for New Start Construction Projects," ER 1165-2-131, dated April 1989 and "Accounting for Cost-Shared Projects," EC 37-8-2, dated December 1990.

YBA--- ***PC-Local Sponsor Audit:*** Upon completion of the project, when all release of claims have been received, and all Federal products have been completed and delivered, the local sponsor has the right and obligation to audit the project expenditures to determine the actual cost of the Federal share of the project.

YBB--- ***PC-USACE Audit:*** Upon completion of the project, when all release of claims have been received, and all local sponsor's products have been completed and delivered, the Federal government has the right and obligation to audit the project expenditures to determine the actual cost of the project and the non-Federal share of the project.

YBC--- ***PC-Final Accounting Report:*** Upon the completion of the project and resolution of all relevant claims and appeals, the Government conducts a final accounting and furnishes the local sponsor with the results. The final accounting determines the total project costs, each party's actual contributions provided to the TPC, and each party's required share of the TPC. See ER 1165-2-29.

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YBD--- *PC-All Other Fiscal Closeout Documents:* All other appropriate fiscal closeout documents determined to be needed on a case by case basis.

YC--- *PC-Final Project or Functional Element Closeout and Local Sponsor Assumption of OMRR&R:* All of the documents required to closeout the project or functional element and required for assumption of the project or functional portion thereof by the local sponsor for long term operation and maintenance (OMRR&R).

YCA--- *Cash Payment to Balance Cost Sharing:* Payment from local sponsor to the Federal Government, or from the Federal Government to the local sponsor, to reconcile actual payments versus obligations as stated in accordance with the terms of the PCA.

YCB--- *PC-OMRR&R Manual:* The OMRR&R manual that outlines the long term operation, maintenance, Repair, Rehabilitation and Replacement requirements for the project to be implemented by the local sponsor.

YCC--- *PC-Written Notice Of Completion and Local Sponsor Assumption of OMRR&R:* Letter that official notifies the local sponsor that the project or functional portion thereof has been completed and that the local sponsor is assuming OMRR&R in accordance with the terms of the PCA.

Z----- *Programs/Project Management Documents (PPM):* Documentation required to develop, defend and execute annual program budgets and manage specific projects in accordance with the annual budget EC and ER 5-7-1 (FR). All of the Programs and Project Management Documents that are generated for the project, including schedule, costs, funds and scope monitoring and control.

ZA---- *PPM-Project Coordination Documents:* All documentation involved with the internal and external coordination, with the local sponsor, the public, other Federal agencies or higher authority. See "Project Management," ER 5-7-1 (FR), dated 30 September 1992.

ZB---- *PPM-Funds Control Documents:* Internal funds control documents for the allocation of funds and management of the Project.

ZC---- *PPM-Trip Reports:* Written trip reports that document all of the site visit, meetings with the Local Sponsor, higher authority, contractors, etc. and other significant trips that effect the scope, cost or schedule of the project.

ZD---- *PPM-Upward Reporting Documents:* All efforts required to meet upward reporting requirements as listed by "Project Management," ER 5-7-1 (FR), dated 30 September 1992.

ZE---- *PPM-Budgetary Documents:* All documents required to prepare and execute the

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annual budget. See "Project Management," ER 5-7-1 (FR), and "Annual Program and Budget Request for Civil Works Activities-Engineering Circular" published annually. Other references are ER 11-2-201, ER 11-2-220, and ER 11-2-240.

ZF---- PPM-Project Authorization Documents: All documents related to the authorization of the project by Congress, including passage into law.

ZG---- PPM-Annual Notification Letter to Local Sponsor for Cost Sharing Funding Requirements: If the local sponsor chooses to fund the project on an annual basis, there shall be a letter that notifies the local sponsor the upcoming FY project funding needs from the local sponsor. See "Project Management," ER 5-7-1 (FR), dated 30 September 1992.

ZH---- PPM-Fact Sheets: Informal project summaries in response to requests for information from Higher Authorities and the local sponsor.

ZI---- PPM-Correspondence (Congressional, State, etc.): All project-related correspondence to higher authority and the local sponsor.

ZJ---- PPM-Schedule and Cost Changes Requests (SACCR's): Documentation required to identify and obtain approval for project schedule and cost changes from the baseline cost estimate and the baseline schedule. See "Project Management," ER 5-7-1(FR), dated 30 September 1992.

ZK---- PPM-Project Work Directives (Service and Change Requests): All documents related to the receipt, distribution, monitoring and management of project funding, such as Funding Authorization Documents (FAD's) and work allowances.

ZL---- PPM-Project Closeout Coordination Documents: All products related to closing out the project and assumption by the Local Sponsor of OMRR&R.

ZM---- PPM-Quarterly Cost Report to Local Sponsor: Quarterly report to the local sponsor on contributions to date and current projections of: (1) project costs and costs due to betterments; (2) Section 902 limit; (3) components of project costs; (4) each parties share of project costs; (5) total cash required from the local sponsor; and, (6) cash required for the upcoming fiscal year.

ZN---- PPM-All Other PPM Documents: All other appropriate PPM documents determined to be needed on a case by case basis. See "Project Management," ER 5-7-1 (FR), dated 30 September 1992.