# Planning - Construction - Operations & Maintenance

<table>
<thead>
<tr>
<th>Phase</th>
<th>Duration</th>
<th>Agreement</th>
<th>Decision Documents</th>
<th>Significant Reports/ Manuals</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reconnaissance Phase</td>
<td>6-12 Months</td>
<td>Feasibility Agreement Signed</td>
<td>905(b) Analysis Report</td>
<td>Feasibility Report &amp; NEPA Documentation</td>
</tr>
<tr>
<td>Feasibility Phase</td>
<td>2 - 3 Years</td>
<td>Design Agreement Signed</td>
<td>Chief of Engineers Report</td>
<td>Engineering Design Report (If Needed)</td>
</tr>
<tr>
<td>Preconstruction Engineering &amp;</td>
<td>Approx. 2 years</td>
<td>Project Cooperation Agreement Signed</td>
<td>Project Authorization</td>
<td>O&amp;M Manual</td>
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<tr>
<td>Design Phase</td>
<td></td>
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<td></td>
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<tr>
<td>Construction Phase</td>
<td>Varies</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Operation &amp; Maintenance Phase</td>
<td>Per Authorization</td>
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**Funding Activities**

- **Recon. Analysis** (100% Fed)
- **Feas. Analysis** (50% Fed - 50% non-Fed)
- **Negotiate Design Agreement**
- **General or Limited Reevaluation** (If Needed)
- **Design Documentation** (If Needed)
- **Plans & Specs** for 1st Construction Contract
- **Construction**
- **Real Estate**
- **Acquisition**
- **Relocations**
- **Engr. & Design** (If Needed)
- **Plans & Specs** (If Needed)
- **Operation**
- **Maintenance**
- **Repair**
- **Replacement**
- **Rehabilitation**

BUILDING STRONG®
Current Guidance on Preparing Dredged Material Management Plans (DMMPs):

PLANNING GUIDANCE

ER1105-2-100
Dated 22 April 2000

Appendix E, pages E-68 to E-83
All federally maintained navigation projects must demonstrate there is sufficient dredged material disposal capacity for a minimum of 20 years.
Corps Policy

• Sound management of dredged material is a **PRIORITY** mission

• Conduct dredging & manage dredged material in an environmentally sound manner

• Ensure each navigation project has a dredged material management plan that assures warranted & environmentally acceptable maintenance of a navigation project

• Include potential beneficial uses of dredged material

• Achieve dredged material management goals within authority
Preliminary Assessment

Existing Projects:

An **Initial Assessment** should exist for each existing navigation project.

- Prepared by District Operations
- A “one pager”
- Establish the Management Plan for the project

Must state:

A. Commercial use of channel
B. Sufficient dredged material disposal capacity for a 20 year minimum? (If “NO”, then a **Preliminary Assessment** must be prepared)
PA and DMMP Development

PRELIMINARY ASSESSMENT
Prepared using readily available maintenance and usage information. May establish Base Plan and confirm continued maintenance appears warranted.

• If YES, completes requirement for management plan.
• If NO, recommend a DMMP

DMMP STUDY
Establishes Base Plan and if necessary the recommended Plan (if major problems, major new investment or significant increase in maintenance costs).

Two Phase Process:
Conduct Initial & Final phases:
• Initial phase: Scope of Work
• Final phase: Executes Scope of Work
Roles and Responsibilities of Planning and Operations

**O&M Projects:**

**Operations** has program management responsibility.

**Planning** conducts required Studies.

**Both** offices must ensure efficient use of shared resources.

**Feasibility Studies:**

**Planning** administers & conducts Management Plan Studies.

**Operations** is essential participant & assumes responsibility for dredged material management following project completion.
DMMP Interdisciplinary Analysis

**Vary depending on scale of DMMP

- Planning
- Plan Formulation
- Environmental
- Economics
- Public Affairs
- Project Management
- Program Management
- Resource Management
- Engineering
- Real Estate
- Office of Counsel
- Construction
- Navigation
- Operations
Funding of PAs and DMMPs

• Preliminary Assessments (PA) funded from available O&M funds. Limit of $20,000.

• Requests for funding for DMMP for $150,000 or less included in O&M funding request (PA must be completed)

• Requests for funding for DMMPs costing more than $150,000 considered on a national priority basis.
DMMP Formulation

• Consider full range of **Alternatives**: extending life of existing sites, combination of new disposal sites with different methods, disposal area locations & periods of use, measures to reduce dredging requirements.

• **Beneficial uses of dredged material**: assess for meeting both navigation and other purposes including fish & wildlife creation/restoration, hurricane & storm damage reduction and recreation.
DMMP – Formulation (continued)

• Beneficial use included in Base Plan is a general navigation O&M component.

• Uses which are not in Base Plan are separable elements of the management plan and are pursued under other authorities.

• However, they should be pursued in conjunction with Base Plan to assure timely availability of dredged material.
DMMP Budgeting

Existing Projects

• DMMP costs for continued maintenance of federal navigation projects are O&M costs and federally funded
• Cost sharing partners must pay the costs for their participation
• Budgeting priority limited to Base Plan. Components attributable to local or state laws are non-Federal costs.
• Activities not required for continued maintenance should be funded by non-Federal interests
• Modifications requiring Congressional authorization must be pursued as feasibility studies
DMMP - Two Stage Process

Initial Phase - Scoping:

- Degree of engineering, environmental & economic risk & uncertainty

- Related activities including surveys outside of project limits, sources of contamination and non-point sources of pollution only included if non-federally funded

- Need for project modification requiring Congressional authorization? If so, pursue new feasibility study through budget process
DMMP-Initial Phase

Initial Scope of Work:

• Basis for total study cost, duration and cost-sharing, if any 36-month limit.

• Addresses work tasks, milestones, schedule, costs, responsibility, non-Fed coordination, regulations/guidance.

• Presents minimum level of technical & scientific detail for Final Phase.

• Include tasks (with costs) to support higher level review and approval of report (i.e. responses to comments, report revisions, meeting attendance, etc.)
DMMP – Final Phase

Final Phase provide:

• Complete initial study, results, & findings

• How compliance with applicable statutes, executive orders & policy is achieved

• A sound & documented basis for decision makers at all levels

• District Commander’s signature, with submittal to Division Commander for further action
PA and DMMP Report Outline

• Project Description(s) [include project map(s)]

• Scope of Study [indicate whether single project or group of projects; relationship to permittee dredging, etc.]

• Authorization and Development History [include all project authorizations, Section 221 agreements, Project Cooperation Agreements (PCAs), Project Partnership Agreement (PPA), easements, fee acquisition, construction dates, etc.]

• Description of existing conditions
PA/DMMP Report Outline (cont.)

• Projections of future conditions in the absence of a Management Plan
• Concise statement of specific problems and opportunities
• Alternative plans:
  o Alternative disposal measures to address identified problems and opportunities
  o Beneficial uses alternatives
  o Reasons for selecting and combining measures to form alternative plans
  o Evaluation of Alternative Plans
  o Trade-off analysis
DMMP Report Outline (cont.)

• Selection of final plan
  o Discuss rationale for selection, sensitivity analysis, and risks and uncertainties

• Description of selected Management Plan
  o Plan components
  o Implementation requirements and schedules
  o Consistency with the Base Plan

• NEPA documentation, as required

• Results of coordination with local, state and Federal agencies
  o Recommendations
DMMP Approval Process

**Division Commanders** ensure full technical review of DMMP and may approve them **EXCEPT** if:

- Item of work required which qualifies as major maintenance
- Adjustment to District funding targets is required
- Additional Congressional authority required

If one or more of these cases applies, Division Commander sends Final DMMP & NEPA Document to HQUSACE for review & approval. Record of Decision (ROD) to follow.
New Project Partnership Agreements

✓ DMMPs requiring new capital investments (i.e. new disposal facility)? need a PPA.
✓ Draft PPA & financing plan
✓ Developed & submitted concurrently with DMMP
✓ DMMP serves as decision document for PPA
✓ PPA requirements should be discussed with sponsor
✓ **NO** commitments to sponsor until DMMP and draft PPA are approved.
✓ After DMMP approved, finalize negotiations with sponsor and submit PPA package to HQUSACE for review.
Useful Websites

DMMP Guidance:ER 1105-2-100: [http://140.194.76.129/publications/eng-regs/er1105-2-100/toc.htm](http://140.194.76.129/publications/eng-regs/er1105-2-100/toc.htm)


Any Questions ????