

Chapter 17

General Design Memorandum

17-1. Requirements

Format and content requirements for the General Design Memorandum (GDM) are described in ER 1105-2-100. The general features of the selected power plant design are presented and analyzed by means of sketches, diagrams, and cost comparisons. Sketches, diagrams, and cost comparisons are used to explain plan formulation and the plan selection process. The electrical drawings required for the memorandum, in addition to equipment locations shown on general floor plans, consist chiefly of one-line diagrams. Approximately six to eight drawings are sufficient to show main unit and switchyard connections, the station service scheme, the control and protective relaying schemes, the communications system, and a lighting feeder scheme. Major equipment information, obtained from vendors, should be included in the appendixes. If the report is approved, it becomes a guide for subsequent detailed engineering developed in Feature Design Memorandums and design drawings (covered in Chapter 18).