



Final Plenary Report

Conventional Facilities and Siting Group

A. Enomoto, J-L Baldy, V. Kuchler



Overview

- ***CFS EDR Kick-Off Meetings***
- ***CFS Scope of Work***
- ***CFS Work Package Descriptions***
- ***Resource Concerns***
- ***Summary***



CFS EDR Kick-Off Meetings

- *Three Separate Kick-Off Meetings Were Held (One in Each Region)*
- *At Each Meeting, Information was Presented that Described Each Region's Efforts for the Overall ILC CFS Design Work*
- *In Addition, Information was also Presented that Described the Process for Large Project Approval in Each Respective Region*
- *While the Regional Methods Vary in Both Structure and Timeframe, the Actual Engineering Work Required is Very Similar*



CFS Scope Of Work

- ***The CFS Contribution to the EDR is Somewhat Different than that of the Technical Aspects of the ILC Project***
 - ***Continued Development and Refinement of Criteria and Preliminary Design***
 - ***Schedule Development from Now Until the Start of Construction***
 - ***Cost Optimization of Baseline Criteria***
 - ***Alternative Evaluation***
- ***CFS Work Packages will Include the Process for Site Selection and Subsequent Final Project Design***



CFS Work Package Organization

- **Work Packages are Divided Under Two General Categories and Six Sub-Categories**
 - **2.1 Civil Engineering and Services**
 - **2.1.1 Criteria Development and Design EDR I**
 - **2.1.2 Final Site Specific Design EDR II**
 - **2.2 Conventional Facilities Process Management**
 - **2.2.1 CFS Scope of Work**
 - **2.2.2 Cost and Time Management**
 - **2.2.3 Site Selection**
 - **2.2.4 Scope of Work for Bidders to Host the Project (For Information Only)**



Work Package Descriptions

- **2.1.1 Criteria Development and Design EDR I**
 - 2.1.1.1 *Civil Work Specific to the Americas Region Sample Site*
 - 2.1.1.2 *Civil Work Specific to the Asian Region Sample Site*
 - 2.1.1.3 *Civil Work Specific to the European Region Sample Site*
 - 2.1.1.4 *Electrical Engineering (all three sample sites)*
 - 2.1.1.5 *Air Treatment Equipment (all three sample sites)*
 - 2.1.1.6 *Process Cooling Water and Piped Utilities (all three sample sites)*
 - 2.1.1.7 *Vertical handling Equipment (all three sample sites)*
 - 2.1.1.8 *Safety Equipment (all three sample sites)*
 - 2.1.1.9 *Survey and Alignment (all three sample sites)*
 - 2.1.1.10 *EDR I Cost Estimate*
 - 2.1.1.11 *EDR I Time Schedule*
 - 2.1.1.12 *EDR I Writing*
- **This WP Group Provides Preliminary Design Up to Final Site Selection**



Work Package Descriptions

- **2.1.2 Final Site Specific Design EDR II**
 - 2.1.2.1 Civil Works Specific to the Selected Site
 - 2.1.2.2 Electrical Engineering
 - 2.1.2.3 Air Treatment Equipment
 - 2.1.2.4 Process Cooling Water and Piped Utilities
 - 2.1.2.5 Vertical handling Equipment
 - 2.1.2.6 Safety Equipment
 - 2.1.2.7 Survey and Alignment
 - 2.1.2.8 EDR II Cost Estimate
 - 2.1.2.9 EDR II Time Schedule
 - 2.1.2.10 EDR II Writing
- **This WP Group Provides Final Design for the Selected Site**



Work Package Descriptions

- **2.2.1 CFS Scope of Work**
 - 2.2.1.1 *Finalize List of Work Packages and Sub-Work Packages*
 - 2.2.1.2 *Take Part in the Work Package Attribution Process*
 - 2.2.1.3 *Develop Final Criteria for all CFS Systems*
- **2.2.2 Cost and Time Management**
 - 2.2.2.1 *Baseline Value Engineering*
 - 2.2.2.2 *Overall Time Schedules*
 - 2.2.2.3 *Alternative Investigation*
- **2.2.3 Site Selection**
 - 2.2.3.1 *Site Selection Process*
- **2.2.4 Scope of Work for Bidders to Host the Project**
 - 2.2.4.1 *Preparation of Bid for Hosting the Project*
- **This WP Group Describes all Other CFS Work Through Site Selection and EDR II**



Resource Concerns

- ***As with All Other Parts of the Project, CFS Resources are Extremely Limited***
- ***Americas Region Resources Far Exceed Those of the Asian and European Regions***
- ***CFS Efforts will be Focused on Only Three of the Work Package Groups Initially***
 - ***2.1.1 Criteria Development and Design EDR I***
 - ***2.2.1 CFS Scope of Work***
 - ***2.2.2 Cost and Time Management***
- ***A Complete Preliminary Design will be Required for the EDR (I)***
- ***The Extent of Value Engineering and Alternative Investigation will be Resource Dependent***



Summary

- ***Most Work Package Descriptions have been Completed and all will be Finalized on the Coming Week***
- ***CFS will Re-establish Formal Lines of Communication with all Area and Technical Systems Through the Work Package Process***
- ***Integration of CFS Design will be Coordinated Within the CFS Group***
- ***For Integration Beyond the CFS Group Strong Management Direction will be Essential***
- ***Resource Levels Must be Increased in Order to Properly Complete all CFS Work Packages***
- ***The CFS Group will Pursue Additional Sources of Interest and Support***