



ECKHOFF, WATSON AND PREATOR ENGINEERING

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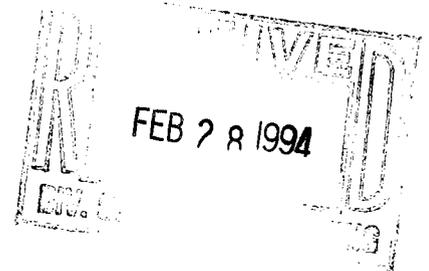
**SUNNYSIDE COGENERATION ASSOCIATES
PAP COMPLETION - Violation N93-13-2-1
Progress Report #2
For the Period Ending January 31, 1994**

*Original
ACT/007/035 #2
Copy to #5
Copy Bill Malerick*

All conditions included in original permit document have been incorporated into Violation N93-13-2-1. An updated schedule for completion of the various aspects of the PAP is attached with this Status Report. The schedule details critical and noncritical tasks, as well as the progress made towards each task.

Work Completed This Period:

- I. Technical Tasks completed during January include:
 - 300 - biology
 - Final vegetation resource map
 - 600 - geology
 - toxic & acid forming data
 - preliminary analysis for acid/toxic forming capabilities
 - drilling plan
 - 700 - hydrology
 - final sediment pond & diversion drawings
 - monitoring wells
 - location plan
 - sampling plan
 - weir & flume design
 - worst case scenario reclamation plan
 - conceptual plan
 - draft bond quantity



Work Anticipated Next Period:

- I. During the months of February through April EWP will prepare an additional submittal package for DOGM. This information will eventually be included in the PAP. The submittal process will include 1) a meeting with DOGM (February 2, 1994), 2) a preliminary submittal for DOGM review (March 4, 1994), 3) DOGM review, and 4) a final submittal.

- II. Additional tasks which will begin in February include:
- Final Phasing Plan (1"=100' Scale) for Worst Case Reclamation Plan
 - Drainage Plans (1"=100' Scale) and Calculations for Sediment Ponds and Diversions for Worst Case Reclamation Plan
 - Construction of the weirs for the Coarse Refuse Seep will begin. Installation of the weirs should occur sometime in April
 - Grading Plans (1"=100' Scale) for the Worst Case Reclamation Plan. Completion of these plans is expected in April.
 - Submittal Package of Resource Information, Conceptual Reclamation Plan and Draft Bond Quantity will be prepared. This package will be submitted to DOGM on March 4, 1994.

Technical or Scheduling Issues:

- I. All work is on schedule. A detailed schedule of all tasks is attached with this progress report.

If you have any questions, please feel free to give me a call.

Sincerely,

Alane E. Boyd, P.E.
Senior Engineer

Attachments

cc: David Pearce
Brian Burnett
Joe Helfridge

SUNNYSIDE COGENERATION ASSOCIATES PAP COMPLETION SCHEDULE/PROGRESS CONTROL

| ID | Name | er | 1st Quarter | | | 2nd Quarter | | | 3rd Quarter | | | 4th Quarter | | | 1st Quarter | | | 2nd Quarter | | |
|----|--|----|-------------|-----|-----|-------------|-----|-----|-------------|-----|-----|-------------|-----|-----|-------------|-----|-----|-------------|-----|-----|
| | | | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May |
| 1 | SCHEDULING OF PAP INFORMATION | | | | | | | | | | | | | | | | | | | |
| 2 | PRELIMINARY SCHEDULE | | | | | | | | | | | | | | | | | | | |
| 3 | REVIEW WITH DOGM | | | | | | | | | | | | | | | | | | | |
| 4 | RESOURCE INFORMATION | | | | | | | | | | | | | | | | | | | |
| 5 | 300 - BIOLOGY | | | | | | | | | | | | | | | | | | | |
| 6 | DESCRIPTION OF RIPARIAN AREA 321.100 | | | | | | | | | | | | | | | | | | | |
| 7 | SPRING FISH INVENTORY & REPORTING 322.200 | | | | | | | | | | | | | | | | | | | |
| 8 | ENGINEERING SURVEY OF REFERENCE AREAS 323.10 | | | | | | | | | | | | | | | | | | | |
| 9 | FINAL VEGETATION RESOURCE MAP | | | | | | | | | | | | | | | | | | | |
| 10 | MAP DELINEATING FISH INVENTORY LOCATIONS | | | | | | | | | | | | | | | | | | | |
| 11 | 400 - LAND USE & AIR QUALITY | | | | | | | | | | | | | | | | | | | |
| 12 | DISTURBED AREA MAPS | | | | | | | | | | | | | | | | | | | |
| 13 | PRELIMINARY DISTURBED AREA MAPS | | | | | | | | | | | | | | | | | | | |
| 14 | FIELD VERIFY DISTURBED AREA | | | | | | | | | | | | | | | | | | | |
| 15 | FINAL DISTURBED AREA MAPS | | | | | | | | | | | | | | | | | | | |
| 16 | 500 - ENGINEERING | | | | | | | | | | | | | | | | | | | |
| 17 | INSPECTION SCHEDULE 514 | | | | | | | | | | | | | | | | | | | |
| 18 | REFUSE PILE 514.200 | | | | | | | | | | | | | | | | | | | |
| 19 | IMPOUNDMENTS 514.300 | | | | | | | | | | | | | | | | | | | |
| 20 | SPOIL AREA | | | | | | | | | | | | | | | | | | | |
| 21 | 600 - GEOLOGY | | | | | | | | | | | | | | | | | | | |
| 22 | TOXIC & ACID FORMING DATA | | | | | | | | | | | | | | | | | | | |
| 23 | PRELIMINARY ANALYSIS FOR ACID/TOXIC FORMIN | | | | | | | | | | | | | | | | | | | |
| 24 | DRILLING PLAN | | | | | | | | | | | | | | | | | | | |

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Critical Noncritical

Progress Milestone

Summary Rolled Up

SUNNYSIDE COGENERATION ASSOCIATES PAP COMPLETION SCHEDULE/PROGRESS CONTROL

| ID | Name | 1st Quarter | | | 2nd Quarter | | | 3rd Quarter | | | 4th Quarter | | | 1st Quarter | | | 2nd Quarter | | | |
|----|---------------------------------------|-------------|-----|-----|-------------|-----|-----|-------------|-----|-----|-------------|-----|-----|-------------|-----|-----|-------------|-----|-----|-----|
| | | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun |
| 25 | REVIEW WITH DOGM | | ■ | | | | | | | | | | | | | | | | | |
| 26 | FINAL DRILLING PLAN | | ■ | | | | | | | | | | | | | | | | | |
| 27 | DRILLING (WEATHER DEPENDENT) | | | | | ■ | | | | | | | | | | | | | | |
| 28 | SAMPLING | | | | | | ■ | ■ | | | | | | | | | | | | |
| 29 | ANALYSIS | | | | | | | | ■ | | | | | | | | | | | |
| 30 | REPORTING | | | | | | | | | ■ | | | | | | | | | | |
| 31 | 700 - HYDROLOGY | ————— | | | | | | | | | | | | | | | | | | |
| 32 | FINAL SED POND & DIVERSION DRAWINGS | ■ | | | | | | | | | | | | | | | | | | |
| 33 | MONITORING WELLS | ————— | | | | | | | | | | | | | | | | | | |
| 34 | LOCATION PLAN | | ■ | | | | | | | | | | | | | | | | | |
| 35 | DRILLING (WEATHER DEPENDENT) | | | | | | | ■ | | | | | | | | | | | | |
| 36 | SAMPLING PLAN | | ■ | | | | | | | | | | | | | | | | | |
| 37 | WEIR DESIGN | ————— | | | | | | | | | | | | | | | | | | |
| 38 | PRELIMINARY DESIGN | ■ | | | | | | | | | | | | | | | | | | |
| 39 | EWP TRC | | ■ | | | | | | | | | | | | | | | | | |
| 40 | FINAL DESIGN & COST ESTIMATES | | ■ | | | | | | | | | | | | | | | | | |
| 41 | CONSTRUCT WEIR | | | ◆ | ◆ | | | | | | | | | | | | | | | |
| 42 | INSTALL WEIR & FLUME | | | | | | ■ | | | | | | | | | | | | | |
| 43 | GATHER FLOW DATA | | | | | | | ■ | ■ | ■ | | | | | | | | | | |
| 44 | DETERMINE GROUNDWATER MOVEMENT | | | | | | | | ■ | | | | | | | | | | | |
| 45 | MASS BALANCE CALCULATIONS | | | | | | | | | | | | ■ | | | | | | | |
| 46 | PROBABLE HYDROLOGIC CONSEQUENCES | | | | | | | | | | | | | | | | | | | |
| 47 | RESOUCE INFORMATION SUBMITTALS | ————— | | | | | | | | | | | | | | | | | | |
| 48 | SUBMITTAL R.I. #1 | ————— | | | | | | | | | | | | | | | | | | |

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Critical  Progress  Summary 
 Noncritical  Milestone  Rolled Up 

SUNNYSIDE COGENERATION ASSOCIATES PAP COMPLETION SCHEDULE/PROGRESS CONTROL

| ID | Name | er | 1st Quarter | | | 2nd Quarter | | | 3rd Quarter | | | 4th Quarter | | | 1st Quarter | | | 2nd Quarter | | |
|----|-------------------------|-----|-------------|-----|-----|-------------|-----|-----|-------------|-----|-----|-------------|-----|-----|-------------|-----|-----|-------------|-----|-----|
| | | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun |
| 49 | MEET WITH DOGM | | | ◆ | | | | | | | | | | | | | | | | |
| 50 | PREPARE DRAFT SUBMITTAL | | | ▨ | | | | | | | | | | | | | | | | |
| 51 | SUBMIT TO DOGM | | | | ◆ | | | | | | | | | | | | | | | |
| 52 | REVIEW BY DOGM | | | | ▨ | | | | | | | | | | | | | | | |
| 53 | INCORPORATE INTO PAP | | | | | ▨ | | | | | | | | | | | | | | |
| 54 | FINAL SUBMITTAL R.I.#1 | | | | | | ◆ | | | | | | | | | | | | | |
| 55 | SUBMITTAL R.I.#2 | | | | | | | | | | | | | ▬ | | | | | | |
| 56 | MEET WITH DOGM | | | | | | | | | | | | ◆ | | | | | | | |
| 57 | PREPARE DRAFT SUBMITTAL | | | | | | | | | | | | ▨ | | | | | | | |
| 58 | SUBMIT TO DOGM | | | | | | | | | | | | | ◆ | | | | | | |
| 59 | REVIEW BY DOGM | | | | | | | | | | | | | ▨ | | | | | | |
| 60 | INCORPORATE INTO PAP | | | | | | | | | | | | | | ▨ | | | | | |
| 61 | FINAL SUBMITTAL R.I.#2 | | | | | | | | | | | | | | | ◆ | | | | |

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Critical  Noncritical 

Progress  Milestone 

Summary  Rolled Up 

SUNNYSIDE COGENERATION ASSOCIATES PAP COMPLETION SCHEDULE/PROGRESS CONTROL

| ID | Name | er | 1st Quarter | | | 2nd Quarter | | | 3rd Quarter | | | 4th Quarter | | | 1st Quarter | | | 2nd Quarter | | | | | | | | |
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| | | | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | | | | | |
| 62 | OPERATION PLAN | | | | | [Progress bar from Mar to Oct] | | | | | | | | | | | | | | | | | | | | |
| 63 | 200 -SOILS | | | | [Critical Milestone] | | | | | | | | | | | | | | | | | | | | | |
| 64 | TOPSOIL HANDLING TESTING PLAN | | | | [Noncritical] | | | | | | | | | | | | | | | | | | | | | |
| 65 | NARRATIVE DESCRIBING TOPSOIL HANDLING & STOR | | | | [Noncritical] | | | | | | | | | | | | | | | | | | | | | |
| 66 | 500 - ENGINEERING | | | | [Progress bar from Mar to Sep] | | | | | | | | | | | | | | | | | | | | | |
| 67 | PREVIOUSLY MINED AREAS MAP 521.112 | | | | [Noncritical] | | | | | | | | | | | | | | | | | | | | | |
| 68 | EXISTING SURFACE FEATURES MAP 521.120 | | | | [Noncritical] | | | | | | | | | | | | | | | | | | | | | |
| 69 | MINE SEQUENCING MAPS 521.141 | | | | [Noncritical] | | | | | | | | | | | | | | | | | | | | | |
| 70 | MINING METHODS DESCRIPTION 523 | | | | | [Noncritical] | | | | | | | | | | | | | | | | | | | | |
| 71 | MINE STRUCTURES & FACILITIES DESCRIPTION 526.11 | | | | | | [Noncritical] | | | | | | | | | | | | | | | | | | | |
| 72 | MINING QUANTITIES CALCULATIONS | | | | | | [Noncritical] | | | | | | | | | | | | | | | | | | | |
| 73 | HANDLING & DISPOSAL OF COAL MINE WASTE 528 | | | | [Progress bar from Mar to Sep] | | | | | | | | | | | | | | | | | | | | | |
| 74 | BURNING & BURNED WASTE UTILIZATION PLAN 5 | | | | [Noncritical] | | | | | | | | | | | | | | | | | | | | | |
| 75 | SPOIL PLACEMENT PLAN 528.300 | | | | [Progress bar from Mar to Sep] | | | | | | | | | | | | | | | | | | | | | |
| 76 | CONCEPTUAL PLANS | | | | [Noncritical] | | | | | | | | | | | | | | | | | | | | | |
| 77 | DRILLING PLAN | | | | [Noncritical] | | | | | | | | | | | | | | | | | | | | | |
| 78 | DRILLING (WEATHER DEPENDENT) | | | | [Critical Milestone] | | | | | | | | | | | | | | | | | | | | | |
| 79 | SAMPLING | | | | | [Noncritical] | | | | | | | | | | | | | | | | | | | | |
| 80 | ANALYSIS | | | | | | [Noncritical] | | | | | | | | | | | | | | | | | | | |
| 81 | REPORTING | | | | | | | [Noncritical] | | | | | | | | | | | | | | | | | | |
| 82 | WASTE SITE DESIGN DRAWINGS | | | | | | | [Noncritical] | | | | | | | | | | | | | | | | | | |
| 83 | OPERATION PLAN SUBMITTALS | | | | | | | | [Progress bar from Aug to Oct] | | | | | | | | | | | | | | | | | |
| 84 | SUBMITTAL O.P.#1 | | | | | | | | [Progress bar from Aug to Oct] | | | | | | | | | | | | | | | | | |
| 85 | MEET WITH DOGM | | | | | | | | | | | | | | | | | | | | [Milestone] | | | | | |

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 Noncritical  Milestone  Rolled Up 

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|----|-------------------------|-----|-------------|-----|-----|-------------|-----|-----|-------------|-----|-----|-------------|-----|-----|-------------|-----|-----|-------------|-----|-----|
| | | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun |
| 86 | PREPARE DRAFT SUBMITTAL | | | | | | | | | | | | | | | | | | | |
| 87 | SUBMIT TO DOGM | | | | | | | | | ◆ | | | | | | | | | | |
| 88 | REVIEW BY DOGM | | | | | | | | | | | | | | | | | | | |
| 89 | INCORPORATE INTO PAP | | | | | | | | | | | | | | | | | | | |
| 90 | FINAL SUBMITTAL O.P.#1 | | | | | | | | | | | | ◆ | | | | | | | |

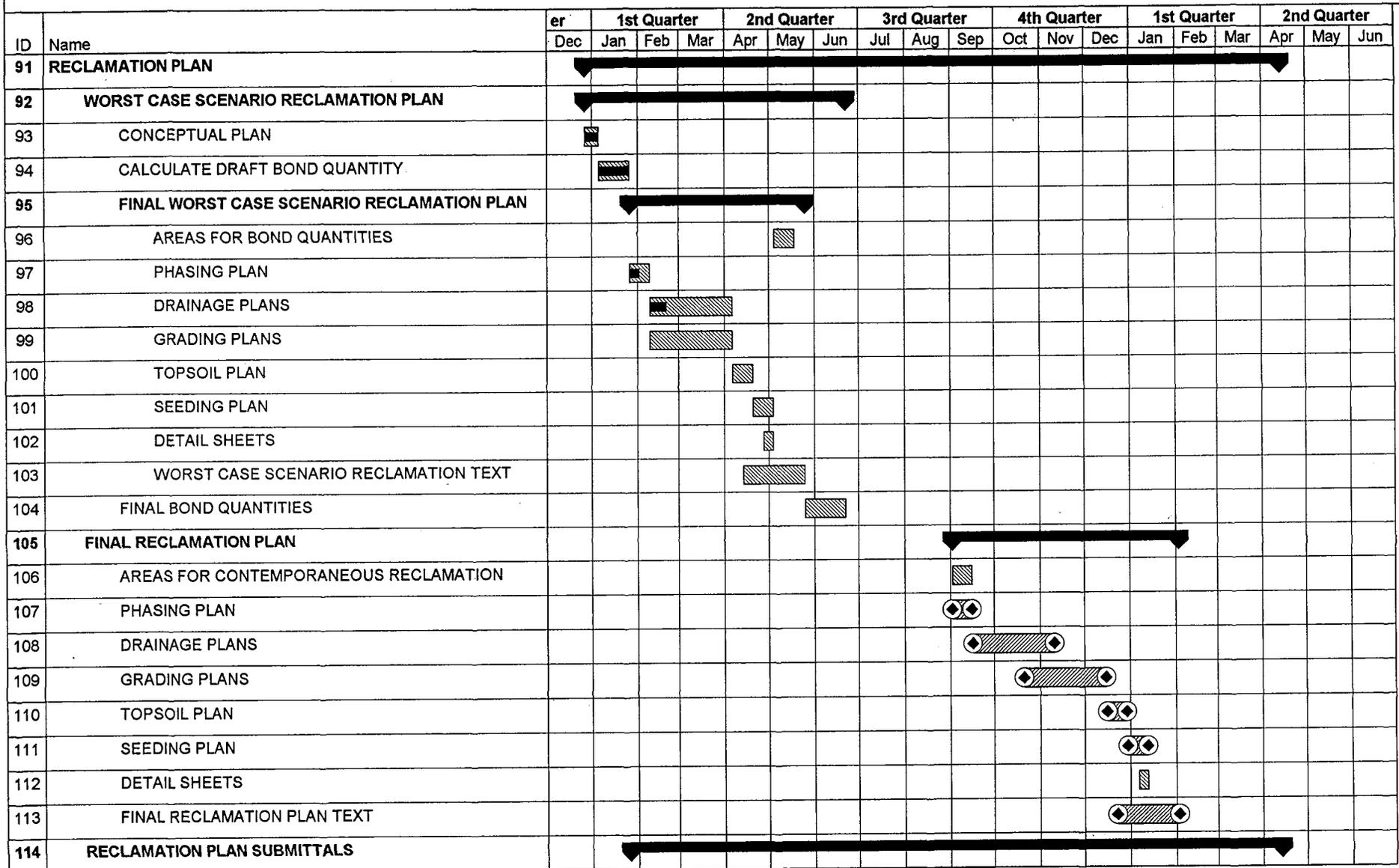
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Critical Noncritical

Progress Milestone

Summary Rolled Up

SUNNYSIDE COGENERATION ASSOCIATES PAP COMPLETION SCHEDULE/PROGRESS CONTROL



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SUNNYSIDE COGENERATION ASSOCIATES PAP COMPLETION SCHEDULE/PROGRESS CONTROL

| ID | Name | er | 1st Quarter | | | 2nd Quarter | | | 3rd Quarter | | | 4th Quarter | | | 1st Quarter | | | 2nd Quarter | | |
|-----|---|----|-------------|-------------|-------------|-------------|-----------|-----|-------------|-----------|-------------|-------------|-----------|-----|-------------|----------|-------------|-------------|-------------|-----------|
| | | | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May |
| 115 | SUBMITTAL OF DRAFT BOND | | | Progress | | | | | | | | | | | | | | | | |
| 116 | MEET WITH DOGM | | | Milestone | | | | | | | | | | | | | | | | |
| 117 | PREPARE DRAFT SUBMITTAL | | | Noncritical | | | | | | | | | | | | | | | | |
| 118 | SUBMIT TO DOGM | | | Milestone | | | | | | | | | | | | | | | | |
| 119 | REVIEW BY DOGM | | | | Noncritical | | | | | | | | | | | | | | | |
| 120 | INCORPORATE INTO PAP | | | | | Noncritical | | | | | | | | | | | | | | |
| 121 | FINAL SUBMITTAL OF DRAFT BOND | | | | | | Milestone | | | | | | | | | | | | | |
| 122 | SUBMITTAL WORST CASE SCENARIO | | | | | | | | Progress | | | | | | | | | | | |
| 123 | MEET WITH DOGM | | | | | | | | Milestone | | | | | | | | | | | |
| 124 | PREPARE DRAFT SUBMITTAL | | | | | | | | Noncritical | | | | | | | | | | | |
| 125 | SUBMIT TO DOGM | | | | | | | | | Milestone | | | | | | | | | | |
| 126 | REVIEW BY DOGM | | | | | | | | | | Noncritical | | | | | | | | | |
| 127 | INCORPORATE INTO PAP | | | | | | | | | | | Noncritical | | | | | | | | |
| 128 | FINAL SUBMITTAL FOR WORST CASE | | | | | | | | | | | | Milestone | | | | | | | |
| 129 | SUBMITTAL FINAL RECLAMATION PLAN | | | | | | | | | | | | | | | Progress | | | | |
| 130 | MEET WITH DOGM | | | | | | | | | | | | | | | | Milestone | | | |
| 131 | PREPARE DRAFT SUBMITTAL | | | | | | | | | | | | | | | | Noncritical | | | |
| 132 | SUBMIT TO DOGM | | | | | | | | | | | | | | | | | Milestone | | |
| 133 | REVIEW BY DOGM | | | | | | | | | | | | | | | | | Noncritical | | |
| 134 | INCORPORATE INTO PAP | | | | | | | | | | | | | | | | | | Noncritical | |
| 135 | FINAL SUBMITTAL FOR FINAL RECLAMATION | | | | | | | | | | | | | | | | | | | Milestone |

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Critical 
Noncritical 

Progress 
Milestone 

Summary 
Rolled Up 