Unit 2 Nuclear Island Annex Building

Milestone Summary

Civil, Structural, Equipment, and Commodity work to support Initial Energization

- Prioritized Activities:
  a) CA22 placement and interior auxiliary building walls
  b) Annex building basemat

Schedule

<table>
<thead>
<tr>
<th>Activity</th>
<th>Actual PPAR Date</th>
<th>Current PPAR Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Place Concrete Floor for CA22 - EL 826</td>
<td>9/5/2015</td>
<td>9/16/2015</td>
</tr>
<tr>
<td>Aux Bldg Structural Backfill Along Col Line 1 to EL 95% Completed</td>
<td>10/14/2015</td>
<td>10/28/2015</td>
</tr>
<tr>
<td>Place Mudmat Annex Bldg Basemat CL 9+10' 8.5&quot; to CL 13 - Area 1 (310 cy)</td>
<td>11/2/2015</td>
<td>11/18/2015</td>
</tr>
<tr>
<td>Place Concrete Annex Bldg Basemat CL 4.1-12' to CL 9+10' 8.5&quot; Area 2 (1537 cy)</td>
<td>12/7/2015</td>
<td>12/22/2015</td>
</tr>
<tr>
<td>Place Concrete Annex Bldg Basemat CL 9+10' 8.5&quot; to CL 13 - Area 1 (1084 cy)</td>
<td>1/6/2016</td>
<td>1/21/2016</td>
</tr>
</tbody>
</table>
Unit 2 Nuclear Island Annex Building

CA-22
- Engineering
  - All E&DCRs and N&Ds dispositioned
  - Non-contact lap splice rear-to-plate EOC holds have been placed
  - Technical plan forward to be determined based in part on construction need date

- Construction
  - Working 2 shifts and weekends
  - Daily OCC meetings
  - Target Concrete Placement: Wk. of 9/14

Unit 2 Nuclear Island Annex Building

- Auxiliary Building third level civil / structural: A3-CS-X: Concrete from 82'-6" to 100'
  - 654 documents in package
  - 17 technical E&DCRs were issued in August
    - No construction impact to the Annex Building basement
  - 17 N&Ds were closed in August
    - One initiated in June; Eight in July; Eight in August
    - No construction impact to Annex Building basement
    - No engineering holds
Unit 2 Nuclear Island Annex Building

Engineering (CB&I)

- Annex Building Basemat AN1-CS-X
  - 131 Documents in Package
  - 21 Holds
    - All isometrics associated with WRS Piping (CAR 2015-2691)
  - VC Summer Specific Design Changes completed:
    - E&DCR VS2-CE50-GEF-000030 Issued
  - VC Summer Specific issues open:
    - Basemat reinforcement design drawing

Unit 2 Nuclear Island Annex Building

Licenseing

- LAR-2b: Radwaste and Annex Building Layout
  - PAR - Install Rebar-Anchor Bolts-Embeds-WWS/SDS Piping-Conduit-Grdg-Forms Basemat CL 9+10' 8.5" to CL 13 - 11/25/2015
  - LAR - Install Interior Wall Forms-Rebar-Embeds and Place Concrete at Radwaste Bldg Rm 50351 - 11/17/2016
  - Submitted to NRC - 2/27/2014
  - PAR received
  - Radwaste Building analysis RAI response submitted - 9/24/2015

- LAR-18: Structures Layout (Radwaste and Annex building)
  - Install Rebar-Anchor Bolts-Embeds-WWS/SDS Piping-Conduit-Grdg-Forms Basemat CL 9+10' 8.5" to CL 13 - 11/25/2015
  - Submitted to NRC - 12/4/2014
  - NRC Review on Schedule

- LAR-30: Remove MSIV Compartment Vents and Change Penetration Rebar Design/TF Bay Wall 11.2
  - PAR - Install Layer 1,2,3 Rebar West ASME III pipe Penetration - Wall at Line 11, P-Q-EL 1176 - Area 1 - 3/25/2016
  - LAR - Place Concrete Wall at Line 11, L to Q - EL 1176 - Area 1 - 5/31/2016
  - Wall 11.2 tobacco missile approach defined
  - NRC Technical Exchange meeting - 9/3/2015
  - Revised Draft LAR review with Owners in Pittsburgh - 9/17 & 9/18
  - Presubmit meeting - 10/8/2015
  - Submittal to NRC - 11/9/2015
Unit 2 Nuclear Island Annex Building

Licensing, continued

- **LAR-43**: Tier 2 Changes and Clarifications
  - Placed Concrete Wall at Line No. 1 to 4 - EL 100 - 2/11/2016
  - Submitted to NRC - 6/12/2016
  - NRC Review on Schedule
- **LAR-111**: Address out-of-plane shear for C3J coupler welds
  - Impacts "Fill CA20 Structural Module" - 11/17/2015
  - Also addresses C3J couplers which are under CA-20
  - NRC technical exchange meeting - 8/13/2015
  - Submitted to NRC - 8/21/2015
  - NRC technical audit - 6/29/2015
  - 5 RAs
  - LAR will be supplemented to include additional information

Unit 2 Nuclear Island Annex Building

Procurement

- No material issues affecting Annex Basemat or CA22
### Unit 2 Nuclear Island Annex Building

**Construction**

**Milestone Summary**
- Annex Building Basemat Construction

**Schedule**
- CA22 driver for mudmat and basemat starts
- All material on site for basemat
- Now managing outstanding materials for walls
  - Embeds
  - Structural steel by priority on site and deliveries continue
  - Pipe fabrication

**Construction**
- Wall 11 Main Steam and Feedwater Penetrations (Stargate)
- Mock-up base slab and knee wall sections placed and stripped
- Tracking Materials:
  - All materials now received
  - Complete "matching" of 1st delivered circumferentials to obtain best fit circles.
  - As sfr-up welding nears completion will initiate cutting of circumferential bar and prepping for Cad Welding.
- Continued assistance of Harsco evaluating forming options to allow direct injection of concrete into lower and heavily rebar congested areas.
- Also evaluating formwork options for higher concrete placement form pressures (result of using SCC).
**Unit 2 Nuclear Island Annex Building**

**Construction**

Wall 11 Main Steam and Feedwater Penetrations (Stargate) Cont’d

- Obstacles to next step:
  - Cutting and welding of #9 & #11 stir-ups (into continuous loop) is time consuming and inconsistent for delivering stir-ups that will “mate” with adjacent bar. Bars maintain slight twist and do not maintain continuous contact.
  - Options:
    - Cutting minimum once for all situations; including very good bars
    - For bad bars, cutting in 2 or 3 locations, which requires adding 1-2 additional weld locations
    - Will have to find "best fit" pairs to install together in contact with one another or provide gap (1” min) to allow concrete flow between stir-ups

---

**Unit 2 Nuclear Island Annex Building**

**Construction**

Wall 11 Main Steam and Feedwater Penetrations (Stargate) Cont’d

- Options cont’d:
  - During the mock-up, the Team will get a feel for what percentage are good versus bad as fabricated by Gerdau.
  - Then will ask for an overage amount to be supplied by Gerdau (i.e. if need 50 and 25% are thought to be bad, ask Gerdau to provide 50+25% or ~65) to a yet to be identified 3rd party welding company to cut and perform welding.
  - For this example, we need 50 or more "best" welded products coming out of 3rd party shop to the site.
# Unit 2 Nuclear Island Annex Building

## Engineering – Auxiliary Building
- Auxiliary Building fourth level civil / structural: A4-CS-X: Concrete for 100’ to 117’
  - 621 documents in package
  - One engineering hold to close on one document
  - APP-PL03-GEF-850072
    - CB&I hold for unincorporated DCP against a Sanitary Drain System piping isometric
    - Resolved by APP-SDS-GEF-012. Hold can be superseded.
  - No impact to Annex Building basemat construction

## Engineering – Annex Building
- AN1-CS-X (100’0” to 107’2”)
  - 5 DOS ISOs impacted by Ancillary Diesel Oil
- AN2-CS-X (100’0” to 117’6”)
  - 108 Documents in Package
  - 10 Engineering Holds (1 Document Removed from Hold)
    - Hold Removal
      - Non-Seg Bus Duct Lateral Support Supplemental Steel
      - General Arrangement Plans
- Design issues open:
  - HVAC Stairwell Heaters (S02, S03 and S04)
  - Converting Vogtle E&DCRs (above basemat) to Standard Plant E&DCRs
  - 58 E&DCRs impacting 35 drawings
  - 27 Complete
  - 17 in Review
  - Electrical Design Completion/Release: Raceway Routing and Grounding
  - Incorporating Final Equipment/Valve Vendor Information
  - Wall Reinforcement Congestion: Area 2 Complete, Area 1 In-Progress
- Design Removed from Hold/Completed
  - Annex Instrument Location Plans
  - Annex Grounding Design

### Milestones
- **Milestone Summary**
  - **Schedule**: AN1-CS-X (100’0” to 107’2”)
    - 5 DOS ISOs impacted by Ancillary Diesel Oil
  - **Construction**: AN2-CS-X (100’0” to 117’6”)
    - 108 Documents in Package
    - 10 Engineering Holds (1 Document Removed from Hold)
  - **Engineering**: Design issues open:
    - HVAC Stairwell Heaters (S02, S03 and S04)
    - Converting Vogtle E&DCRs (above basemat) to Standard Plant E&DCRs
    - 58 E&DCRs impacting 35 drawings
    - 27 Complete
    - 17 in Review
    - Electrical Design Completion/Release: Raceway Routing and Grounding
    - Incorporating Final Equipment/Valve Vendor Information
    - Wall Reinforcement Congestion: Area 2 Complete, Area 1 In-Progress
  - **Licensing**
  - **Procurement**
  - **Look Ahead**
  - **Actions**

### Notes
- General Arrangement Plans
- Non-Seg Bus Duct Lateral Support Supplemental Steel
- Hold Removal
- Electrical Design Completion/Release: Raceway Routing and Grounding
- Incorporating Final Equipment/Valve Vendor Information
- Wall Reinforcement Congestion: Area 2 Complete, Area 1 In-Progress
- Design Removed from Hold/Completed
  - Annex Instrument Location Plans
  - Annex Grounding Design

**Proprietary and Confidential**
### Unit 2 Nuclear Island Annex Building

#### Licensing
- LAR-112 – Tier 1 Wall Thickness Discrepancy above 100’ Elevation
  - NRC agrees this is a Tier 1 inconsistency and construction can proceed.
- LAR - ITAAC 3.3.00.02a.ii.d “Aux Bldg RCA As-Built Concrete Thickness” – 5/23/2017
- PAR may be requested
- Submittal - TBD

#### Procurement Tracking
- Annex Steel deliveries ongoing
- Annex Wall Embeds – all plates to elevation 107’ are onsite. Embeds for elevation 107’-117’-6 have been fabricated and are being stored at the supplier
- Pipe Fabrication and Delivery – Spool VS2-WWS-PLW-976-1 needed for Annex 102’ to 107’ – currently in fabrication
- All Wall 11 Main Steam Mock Up Rebar onsite

#### Actions

### Unit 2 Nuclear Island Annex Building

#### Actions?

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**V.C. Summer 2 & 3 Project Monthly Review Meeting - September 2015**

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*Confidential*
Break

Priority 4: Turbine Building
Unit 2 Turbine Building

Milestone Summary
Turbine building work to support Initial Energization and Hot Functional Testing

- Prioritized Activities:
  - 1st Bay Turbine Building basemat
  - Turbine Building pedestal

Unit 2 Turbine Building

Schedule

<table>
<thead>
<tr>
<th>Activity</th>
<th>Actual PTM Date</th>
<th>Concurr IPS Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Place Concrete for Basemat 1st Bay</td>
<td>8/29/2015</td>
<td>9/9/2015</td>
</tr>
<tr>
<td>Place Backfill - TB Wall Plant W - EL 94' to 100'</td>
<td>9/4/2015</td>
<td>10/12/2015</td>
</tr>
<tr>
<td>TG Pedestal: Concrete Cure Complete</td>
<td>11/21/2015</td>
<td>12/18/2015</td>
</tr>
</tbody>
</table>

Note: Current IPS Date from #14/15
### Unit 2 Turbine Building

#### Construction

**Milestone Summary**
- Single placement incorporating P1, P2, P3 and 1st Bay - 2,080 cu yds
- Placement 9/10 - 9/11
- Utilized 2 concrete mixes:
  - F (3/8 aggr. SCC)
  - C2 (conventional mass concrete)
  - F Mix for lower highly congested layer
  - C2 for upper layer incl. finished surface
  - Mock Up performed with F and C2

**Procurement**
- Utilized placing boom for first time
- Utilized QC for inspections of rebar wall dowels for the 11.2 column line
- Encountered stiffened concrete in some areas with lower F layer: N&O, CAR issued, surveyed areas, Eng. analyzing

**Look Ahead**
- Rebar and Embed installation continues
- Concrete Placement Plan in final draft
- Finalizing placing constructability plans
- Thermal control plan
- Placement day logistics – staging, breaks, power, fueling, emergency planning
- Corporate cold eyes review of execution and planning (8/28)
- Reviewed Team plan and remaining duration of work
- Plan assumes little change paper impact in duration
- Craft Resource dependent, area is fully manned

---

#### Unit 2 Turbine Building

**Construction - STG Deck**

- Placement forecast for mid November 2015 2,300 cu yds
- Rebar and Embed installation continues
- Working 2 shifts 6-10s
- Daily OCC PMO Team meetings
- Concrete Placement Plan in final draft
  - Finalizing placing constructability plans
  - Thermal control plan
  - Placement day logistics – staging, breaks, power, fueling, emergency planning

**Actions**
- Utilized placing boom for first time
- Utilized QC for inspections of rebar wall dowels for the 11.2 column line
- Encountered stiffened concrete in some areas with lower F layer: N&O, CAR issued, surveyed areas, Eng. analyzing
V.C. Summer 2 & 3 Project Monthly Review Meeting - September 2015

Unit 2 Turbine Building

Engineering
- Turbine Building 1st Bay Basemat T1-FB-X (CSA)
  - 38 Documents in Package
  - No Holds
- SEG worked with FE to address (Duration August to Beginning of September)
  - 25 E&DCRs (CSA)
  - 5 E&DCRs (Mech/Piping)
  - 12 N&Ds

Unit 2 Turbine Building

Engineering
- Turbine Building Pedestal (T5-M81-X)
  - 55 Documents in Package
  - No Holds
- SEG working with FE to address congestion as specific needs are identified
  - No Open E&DCRs/N&Ds
Unit 2 Turbine Building

**Licensing**
- LAR-30 - Remove MS/V Compartments Vents and Change Penetration Rebar Design/ TB Bay Wall 11.2
- Wall 11.2 tornado missile approach defined
- First bay basement concrete placement
  - Enhanced quality requirements
- Wall 11.2 wall dowel development length and spacing
- NRC Technical Exchange meeting – 9/3/2015
- Revised Draft LAR review with Owners in Pittsburgh – 9/17 & 9/18
- LOP Presubmittal meeting – 10/8/2015
- Submit to NRC - 11/9/2015

**Procurement**
- There are no outstanding material needs to support Turbine First Bay or Turbine Pedestal
### Unit 2 Turbine Building

#### Construction
- Completion of Structural Steel up to 170’
- Set crane columns and verts
- Set mechanical/electrical equipment up to 170’
- Setting of Transformers
- Start Dead End Structure to support initial energization
- Start ISO phase bus foundations

#### Unit 2 Turbine Building

#### Engineering
- Incorporating Final Equipment/Valve Vendor Information
- Auxiliary Building Tornado Missile Evaluation (LAR 30)
- Issuing FWS and MSS Piping Revised Design (Incorporating approved Wall 11 Loads)
- HVAC Stairwell and Unit Heater
### Unit 2 Turbine Building

#### Engineering
- **Turbine Building Elevation 82'9" (T2)**
  - 2609 Documents, 25 Documents Added to Package, 32 Documents Removed from Hold, 18 Holds Added, 206 Holds Remain
  - 3 Electrical Holds
  - 187 Piping Holds
  - 6 CSA Holds

- **Turbine Building Elevation 100'0" (T3)**
  - 5103 Documents, 51 Documents Added to Package, 67 Documents Removed from Hold, 66 Holds Added, 504 Holds Remain
  - 144 Electrical Holds (Note: EC Package Moved to T6)
  - 360 Piping Holds
  - No CSA Holds

- **Turbine Pedestal, Elevation 170'0" (T5-M81-X)**
  - 55 Documents
  - No Holds

#### Licensing
- **LAR-67** – Turbine Bldg Switchgear Room and Office Area Layout Change – Impacts "Construct Rm: Switchgear Room 2 – EL 141_subArea2" – 1/28/2016
  - NRC review on schedule

- **FL-0002** – VWS Chiller Relocations – "Install Rebar for Equip Pads on Slab @ EL120_subArea 2" – 11/24/2015
  - Transmitted to SCE&G - 1/13/15

### Unit 2 Turbine Building

#### Licensing
- **LAR-67** – Turbine Bldg Switchgear Room and Office Area Layout Change – Impacts "Construct Rm: Switchgear Room 2 – EL 141_subArea2" – 1/28/2016
  - NRC review on schedule

- **FL-0002** – VWS Chiller Relocations – "Install Rebar for Equip Pads on Slab @ EL120_subArea 2" – 11/24/2015
  - Transmitted to SCE&G - 1/13/15
### Unit 2 Turbine Building

**Procurement**
- Pipe Support Deliveries
- Redesigned Pipe Spools

**Actions?**
Milestone Summary

Critical Path for securing licensed operators goes through NRC inspection and approval of the Plant Reference Simulator. Three classes of candidates are planned to sit for operator license exams to support the requirement of 45 licensed operators for Unit 2 Fuel Load. Additional gap training will be provided based on plant updates, and additional classes will sit for exams to support Unit 3 requirements.

- Schedule Date = March 2018 (delivery of BL 8 PRS to site)
- Schedule need date = June 2017

Key Activities:
- NRC Inspection and approval of Plant Reference Simulator (PRS)
- First Wave of Candidates sit for Licensed Operator Exams
- Secure 45 Licensed Operators prior to Unit 2 Fuel Load
- Complete Integrated System Validation (ISV) ITAAC
- Perform Reactivity Manipulations
- Update PRS Software Configuration for Fuel Load
- Provide Operator Gap Training to Support Unit 2 Fuel Load
**Licensed Operators**

**Challenges**

<table>
<thead>
<tr>
<th>Challenge</th>
<th>Context</th>
<th>Date</th>
<th>Mitigation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Class 2 (130-01)</td>
<td>30 day clock (NRC)</td>
<td>April 1, 2016</td>
<td>Implement rest cause analysis actions</td>
</tr>
<tr>
<td>Class 3 (130-01)</td>
<td>20 day clock (NRC)</td>
<td>April 1, 2016</td>
<td>Implement rest cause analysis actions</td>
</tr>
</tbody>
</table>

**Actions**

- [ ] Implement rest cause analysis actions
- [ ] Schedule adequate time for candidates
Construction Priorities and Milestones

Unit 3

Review of Project Milestone Schedule
Terry Elam / Lisa Cazalet

NOTE: The GU used in this report has not been accepted by the Owners as of this report date.

The June 2020 Substantial Completion Date assumes NMI panel delivery acceleration.
V.C. Summer Unit 3

- Priority 1: Nuclear Island Shield Building
  - Layer C Placement
- Priority 2: Nuclear Island Inside Containment
  - Layer 1A Placement
- Priority 3: Auxiliary Building Construction
  - Interior/Exterior Walls to support backfill (11 and G and I Lines and Floors in areas 1 & 2)
- Priority 4: Turbine Building Construction
  - Turbine walls, basements, and steel erection
V.C. Summer Unit 3

Accomplishments:

- Completed lift and set of CB65 in Containment
- Completed Layer C placement 1,136 cu yds
- Completed placement of Q/11 Line wall 82'6" to 100’ 195 cu yds
- Completed placement of Area 2 Concrete Beam

Construction

- Auxiliary Building
  - Install beams/Q decking for Area 2 floors 12201 & 12202
  - 1 Line J2 – N forms, rebar & embeds

- Containment Building – Layer 1A
  - Continue Rebar and T-heads for Layer 1A

- Shield Building
  - D1 West Side
  - D2 East outside Annulus North
  - D2 East inside Annulus
  - D2 East outside Annulus South

- Turbine Building Construction
  - Condenser and Structural Steel Module work ongoing
  - TB civil work affected by rodbuster resource priorities
  - Taking Action to use civil sub to supplement
V.C. Summer Unit 3

Engineering

- Auxiliary Building structural module CR10: A2-MCR10-X (Layer C)
  - No engineering holds
- Auxiliary Building second level civil / structural: A2-CS-X
  - No engineering holds
- Auxiliary Building third level civil / structural: A3-CS-X
  - Same as A2-CS-X from Unit 2 Shield Building with the following differences:
    - 10 technical E&DCRs were issued in August
      - VS3-174012-GEF-000006: moves splice locations due to lessons learned from Unit 2.
      - VS3-200121-GEF-000007: replaces U-bars with standard hooks and mechanical connectors to facilitate construction of floor slabs at 82'-4"
      - VS3-200121-GEF-000008: Moves a construction joint on Wall L
- Two NAS0 initiated and closed in August
  - VS3-19776-GEF-000001: embed plate drilled outside of tolerance. Use as is disposition
  - VS3-19776-GEF-000002: interferences caused out of tolerance bars in Wall 7.3 that affect 82'-4" floor slab. Use as is disposition

V.C. Summer Unit 3

Engineering (Cont')

- CA05
  - Seven technical E&DCR issued
  - The significant E&DCRs are:
    - APP-CA05-GEF-138: Adds three overlay plates
    - APP-CA05-GEF-141: Removes four studs due to interference with penetration
    - VSG-CA05-GEF-00001315: Removes channels after module installation to support rebar installation
  - One N&D was initiated and closed in August
    - No impact to construction
    - No engineering holds
Engineering (Con't)

- CA20
  - 14 technical E&DCRs issued
    - The significant E&DCRs were:
      - APP-CA20-GEF-1487: adds electrical penetrations for two DCPs
      - VS3-CA20-GEF-000008: adds angles for construction aid per construction request
      - VSG-CA20-GEF-000039: Adds clean out ports to remove foreign mat prior to concrete placement
    - Eleven N&Ds were closed in August
      - Three initiated in July; Eight in August
      - The significant N&D was:
      - VS3-CA20-GNR-000015: bowed rebar requires rework.
    - No engineering holds

License

- No licensing holds for Unit 3

Procurement

V.C. Summer Unit 3

- Safety Related Steel Battery Rooms— all onsite with exception of 2 beams — etc 6-Oct
- CA20 Sub-module Deliveries ongoing from Lake Charles and OIW
  - Last sub-module delivery date schedule for Lake Charles 11-Dec and OIW 1-Jan
  - CA01 Sub-module Deliveries
  - Last sub-module delivery date 21-Jun-2016
V.C. Summer Unit 3

Actions?

Metrics Review
Site E&DCRs by month

Original Forecast Dates Met for Construction Support E&DCR's - B.O.P.

<table>
<thead>
<tr>
<th>Month</th>
<th>Forecast Met (%)</th>
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<tbody>
<tr>
<td>Jan 2015</td>
<td>30</td>
</tr>
<tr>
<td>Feb 2015</td>
<td>28</td>
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<tr>
<td>Mar 2015</td>
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<td>Jul 2015</td>
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<tr>
<td>Aug 2015</td>
<td>28</td>
</tr>
<tr>
<td>Sep 2015</td>
<td>30</td>
</tr>
</tbody>
</table>

Reasons for Current Performance:
- See following slide

Actions to Improve Performance:
- Continue to focus on meeting original forecast dates. Maintain focus on E&DCRs which were delayed to improve performance and better predict completion dates. Review reasons for reforecasting by B&DC/i's same as those in the reforecast completion dates.

Notes:
- B&DC/i's which were delayed for more than one week
- E&DCRs which were delayed for more than one week in total

Site E&DCRs by month

Reason for Reforecasted E&DCR Completion Dates - B.O.P. - August 2015

- 17 out of 60 were late
- Increase in complexity: 1%
- Lack of input: 24%
- Reassignment: 57%
- Other: 18%
V.C. Summer 2 & 3 Project Monthly Review Meeting - September 2013

Site N&Ds by month
Mike Engel/John Robinson

Percentage of Original Forecast Dates Met for Construction Support
(Nuclear Island N&Ds)

<table>
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<tr>
<td>Percentage</td>
<td>47</td>
<td>55</td>
<td>39</td>
<td>56</td>
<td>20</td>
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</tbody>
</table>

Reasons for Current Performance:
- See Following Slide

Actions to Improve Performance:
- Increased focus on criticality and performance

GOAL:
- TOTAL 90%
- 75% = Green
- 25-90% = Yellow
- >90% = Red

Additional Comments:

Site N&Ds by month
Mike Engel/John Robinson

Reason for Reforecasted N&Ds Completion Dates
(Nuclear Island) - August 2015
6 out of 20 were late

- Other
- 5%
- High Risk/High
- 50%
- Reprioritize
- 3.7%
Site N&Ds by month
Adam Scheider

Original Forecast Dates Met for Construction Support N&D's -
B.O.P.

- See Following Table

Actions to Improve Performance: Review measures for
- Schedule lag: focus on critical path to avoid
- Material shortages: ensure timely delivery

Goal:
- 75% on time - Critical
- 60-70% - Tolerable

Additional Comments:
- 3 N&Ds were completed in the same week as the
- original forecast date, and 3 were delayed more than one work week. The
- remaining 5 N&Ds that entered the original forecast date were delayed by
- more than two work weeks.

Month End August 2015
Proprietary and Confidential

Reason for Reforecasted N&D Completion Dates
B.O.P. - August 2015

- Lack of Input: 11%
- Reprioritized: 89%

9 out of 32 were late

Month End August 2015
Proprietary and Confidential
August 2015 WEC Docs Initiated
Mike Engel/John Robinson

August 2015 WEC Docs Initiated

<table>
<thead>
<tr>
<th></th>
<th>VS2</th>
<th>VS3</th>
<th>VSG</th>
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August 2015 WEC Docs Approved
Mike Engel/John Robinson

August 2015 WEC Docs Approved

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<th>VS3</th>
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<td>52</td>
</tr>
<tr>
<td>N&amp;Os</td>
<td>163</td>
<td>49</td>
<td>2</td>
</tr>
</tbody>
</table>
**Licensing Change Package Quality**

**Brian McIntyre**

![Graph showing licensing change package quality metrics for various months, with data highlighting trends and performance indicators.]

- **Reason for Current Performance:**
  - E: Engineered
  - G: Generated
  - S: Standard
  - P: Unplanned

- **Actions to Improve Performance:**
  - T: Training
  - A: Adjustments
  - E: Execution rate
  - F: Filling feedback
  - O: Outside final customers

**Westmoreland/CB🎂 Stone Webster - Proprietary and Confidential**

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**Licensing: LCP On Time Delivery**

**Brian McIntyre**

![Graph showing LCP on time delivery metrics for various months, with data highlighting trends and performance indicators.]

- **Reason for Current Performance:**
  - E: Engineered
  - G: Generated
  - S: Standard

- **Actions to Improve Performance:**
  - T: Training
  - A: Adjustments
  - E: Execution rate
  - F: Filling feedback
  - O: Outside final customers

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**Fabricated Pipe: ASME III – Spool Status**

**Eric Wilson**

<table>
<thead>
<tr>
<th>Nuclear Island</th>
<th>U2</th>
<th>U3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engineering % Complete</td>
<td>96%</td>
<td>96%</td>
</tr>
<tr>
<td>% Spools on Design Hold</td>
<td>1%</td>
<td>1%</td>
</tr>
<tr>
<td>Number of Spools</td>
<td>2,110</td>
<td>2,110</td>
</tr>
<tr>
<td>% Spools on Shop Hold</td>
<td>37%</td>
<td>66%</td>
</tr>
<tr>
<td>Shipped</td>
<td>58%</td>
<td>28%</td>
</tr>
<tr>
<td>In Process (Fab, Awaiting Ship)</td>
<td>542</td>
<td>1,379</td>
</tr>
</tbody>
</table>

**Phases for Current Performance:** Showed improvement due to
- More staff in shop
- Reduced scope of work
- Improved communication

**Actions to Improve Performance:**
- Compress schedule
- Improve communication
- Increase staff in shop

<table>
<thead>
<tr>
<th>Number of Spools on Site</th>
<th>1,800</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of Spools on Order</td>
<td>3,500</td>
</tr>
<tr>
<td>Total Number of Spools</td>
<td>5,300</td>
</tr>
</tbody>
</table>

**Monthly End August 2015**

**Proprietary and Confidential**

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**Rebar – Shipment**

**Eric Wilson**

**Phases for Current Performance:**
- No change in shipment due to storage constraints

**Actions to Improve Performance:**
- Improve communication
- Increase staff in shop
- Compress schedule

**Monthly End August 2015**

**Proprietary and Confidential**
**Structural Steel – Shipment vs Install**

**Eric Wilson**

![Graph showing structural steel shipment and installation vs time]

**Summary**

- **Reasons for Current Lag:*** Shipment to site of Steel due to openIterations at site

**Actions to Improve Performance:**
- Continue developing additional iterations across site

**Notes:**
- Open & 2 months behind site
- 25% of site facility complete on site
- 4 months behind site

**V.C. Summer 2 & 3 Project Monthly Review Meeting - September 2015**

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**I&C Fuel Load Baseline Milestones**

**Dan Harris**

**Significant Representative Baseline & Execution Milestones**

- **On target with milestones to support Software release Oct 2016 for Component Testing**

- **August Results**
  - **GS- Issue 13 SPS Integration Test Summary Report - Completed 31 Aug 15**
  - **EC- Respite B Batch 1 Injection Point (29-Aug-15) - Completed 31-Aug-15**
  - **EC- Prepare Baseline APP-065 Revision Report (for Batch 1 Design inputs)**
  - **MT- Respite and Aimsphere (MEREBUS) in 300k/Day - Complete**
  - **IE- Baseline B Batch 1 Injection Point SSCP Sep 15 - On target for 7-Sep-15**

**Month of August 2015**

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WEC_SCORS_000322
I&C Design Debt – Work down Curve

Dan Harris

I&C Baseline B - Workdown Curve

47 items completed in the Month of August.
Mitigation plans to pull back late Design Debt are progressing well with continued oversight and control.

Top Areas of Mitigation: 2 Day workshop held with CB&I late August.

- Reactive Design Studies (previously identified as high risk)
- MIT Overlap (previously identified as high risk)
- Sustain (previously identified as high risk)
- VWS
- CWS
- PGS

VWS, CWS, and PGS collaborative mitigation plans reduce negative float.
Conclusion

Wrap Up
Carl Churchman / Bill Wood / Ron Jones

Next Project Review Meeting:
October 15, 2015
V.C. Summer New Nuclear Office Building
(NNOB), Conference Room 201