

Handout 9B
Schedule Highlights
Summary of Key Schedule Changes

Consultative Work Group Meeting
July 19, 2017

Schedule Highlights

Groundwater Remedy Design

- Final Design Submittal
 - ✓ PG&E produce final design/submit to Agencies – 11/18/15
- State CEQA Evaluation/Preparation of Groundwater Subsequent EIR (SEIR)
 - ✓ Draft SEIR for public review – 1/12/17
 - ✓ 45-day Public Comment – 1/12/17 through 2/27/17
 - ✓ Open Houses/Public Meetings/Hearings – 1/31, 2/1/17
 - ✓ Final SEIR/RTCs/Findings/MMRP – 3/7 thru 10/12/17
 - ✓ Certification of SEIR – anticipated 10/12/17
- Agencies Review/Approve BOD and C/RAWP
 - ✓ Agencies' Decision on BOD and C/RAWP – anticipated 10/12/17

Soil Investigation and Data Gap Evaluation

- Work Plan Implementation
 - ✓ Held Project Initiation Meeting – 10/29/15
 - ✓ Completed Field Implementation – 11/3/15 – 3/24/16
 - ✓ In accordance with scope defined in the Soil RFI/RI Work Plan, Data Gaps Work Plan 1, and Data Gaps Work Plan 2.
 - ✓ Implementing Data Gaps Work Plan 3
 - ✓ Submitted on 9/21/16; received comments from FMIT, Hualapai Indian Tribe, and Cocopah Indian Tribe
 - ✓ Agencies reviewed the work plan and considered Tribal comments. DOI conditionally approved Data Gaps Work Plan 3 on November 9, 2016. DTSC approved on November 10, 2016.
 - ✓ Completed Field Work – 4/27/17
 - ✓ Lab Analysis and Validation – 1/4 through 7/28/17 (est.)

Dioxin/Furan Background Study (in Soil)

- Work Plan for Background Study of Dioxins and Furans
 - ✓ December 20, 2016 – PG&E submitted work plan to DOI
 - ✓ February 2-3, 2017 – Site walks with Tribes to view proposed sampling locations
 - ✓ February 28, 2017 – DOI considered all comments received and issued directives to PG&E
 - ✓ March 2, 2017 – PG&E submitted revised work plan to DOI
 - ✓ March 6, 2017 – DOI approved revised work plan
- Field Implementation
 - ✓ March 17-18, 2017 - Conducted soil sampling activities
- Lab analysis and data validation – 3/20 – 7/7/17

Dioxin/Furan Background Study (in Soil)

- Technical Memorandum
 - ✓ PG&E submits to DOI – 7/20 (est.)
 - ✓ Agencies, Tribes, and Stakeholders review – 7/20 through 8/21
 - ✓ DOI considers comments, and either approves or issues directive to PG&E – Anticipated 9/4

Soil Risk Assessment

- Agencies' direction to move forward with Soil Risk Assessment – 6/20/17
- Data summary for EPC calculation – 7/28/17
- EPC Calculation – 7/31 through 10/25/17
 - ✓ Meeting to discuss EPCs – August 16
- Risk Assessment Report
 - ✓ Draft Report - Target submittal December 22, 2017
 - ✓ Tribes and Stakeholder Review: 12/28/17 – 1/29/18
 - ✓ Agencies Review: 12/28/17 – 2/12/18

Soil Risk Assessment

- Risk Assessment Report (Continued)
 - ✓ Response To Comments
 - ✓ Review Comments/Compile Comments Table: 2/13 - 2/26/18
 - ✓ Hold Comments Clarification Meeting: target 2/15/18
 - ✓ Prepare RTC Table – 2/27 – 3/26/18
 - ✓ Hold RTC Meeting – target 4/16/18
 - ✓ Final Report with RTC Table – Target submittal 6/28/18
 - ✓ Agencies Approval – anticipated July 30, 2018

Soil RFI/RI Reporting (Volume 3)

- Soil RFI/RI Report
 - ✓ Draft Report - Target submittal June 28, 2018
 - ✓ Tribes and Stakeholder Review: 7/3 – 8/2/18
 - ✓ Agencies Review: 7/34 – 8/17/18
 - ✓ Response To Comments
 - ✓ Review Comments/Compile Comments Table: 8/20 - 9/20/18
 - ✓ Hold Comments Clarification Meeting: target 8/21/18
 - ✓ Prepare RTC Table – 9/21 – 10/19/18
 - ✓ Hold RTC Meeting – target 11/9/18
 - ✓ Final Report with RTC Table – Target submittal 1/8/19
 - ✓ Agencies Approval – anticipated February 7, 2019

Summary of Key Schedule Changes

Handout 9B

Summary of Key Schedule Changes since August 15, 2007 (Rev. 35)

July 19, 2017 changes highlighted in Yellow – changes are from April 19, 2017

Activities	Forecast Schedule Deviation	Key Reasons
Groundwater		
Pre-Final (90%)/Final Design and Construction/Remedial Action Work Plan (through CEQA Review and Approvals) (Lines 1588-1674)	<ul style="list-style-type: none"> • FF 9/24/2012 (Rev. 11) • FF 10/2/2012 (Rev. 12) • FF 11/30/2012 (Rev. 13) • FF 1/29/2013 (Rev. 14) • FF 7/2/2013 (Rev. 15) • FF 1/20/2014 (Rev. 16) • FF 5/22/2014 (Rev. 17) • FF 9/8/2014 (Rev. 18) • FF 10/7/2014 (Rev. 19) • FF 10/29/2014 (Rev. 20) • FF 12/31/2014 (Rev. 21) • FF 3/26/2015 (Rev. 22) • FF 4/3/2015 (Rev. 23) • FF 6/30/2015 (Rev. 24) • FF 8/4/2015 (Rev. 25) • FF 10/22/2015 (Rev. 26) • FF 12/26/2016 (Rev. 27) • FF 2/6/2017 (Rev. 28) • FF 3/6/2017 (Rev. 29 and 30) • FF 4/11/2017 (Rev. 31) • FF 6/23/2017 (Rev. 32 and 33) • FF 8/1/2017 (Rev. 34) • FF 10/12/2017 (Rev. 35) 	<ul style="list-style-type: none"> • Cascading extension of schedule from Preliminary (30%) Design. • Extend duration for CWG/TWG review from 30 to 60 calendar days. • Extend duration for Tribal Consultation from 30 to 60 calendar days. • Extend duration of DTSC/DOI review from 45 to 75 calendar days. • Cascading changes from Intermediate (60%) Design and 60% Design Addendum. • Cascading changes from the Freshwater Source Evaluation and Comment Resolution schedule. • Extension of schedule reflected a) the additional time required to complete resolution of 60% comments and b) the added time anticipated for resolution of 90% (from 1 month to 3 months). • Extend duration for Agencies' review/approval of design to 2 work weeks. • Addition of supplemental design. Extend duration for Agencies/Stakeholders/Tribes review. • Adjusted response to comments and comment resolution to reflect the nature/number of comments received and the 90% RTC protocol. • Addition of a web-based comment resolution meeting on August 26-27, 2015. • Addition of State CEQA review and preparation of the Groundwater Subsequent EIR (SEIR). • Additional time required to compare final design with 2011 concept for project description. • Additional time required to complete the Project Description and prepare the Draft SEIR. • Extended public review time of the Draft SEIR by one week (from 45 to 52 calendar days). • Additional time required to prepare the Draft SEIR. • Additional time required to respond to comments received on the Draft SEIR, meet with Tribes/Stakeholders, and finalize the SEIR.
Right of Ways/Easements/Landowner Agreements/Other Approvals/	<ul style="list-style-type: none"> • FF 12/28/2012 (Rev. 11) • FF 1/7/2013 (Rev. 12) • FF 2/27/2013 (Rev. 13) 	<ul style="list-style-type: none"> • Cascading extension of schedule from Preliminary (30%) Design. • Cascading extension of schedule from Intermediate (60%) Design. • Added details on community outreach activities – State/Federal.

<p>Compliance/Community Outreach</p> <p>(Lines 1675-1688)</p>	<ul style="list-style-type: none"> • FF 4/15/2013 (Rev. 14) • FF 9/13/2013 (Rev. 15) • FF 2/21/2014 (Rev. 16) • FF 6/23/2014 (Rev. 17) • FF 10/10/2014 (Rev. 18) • FF 11/10/2014 (Rev. 19) • FF 12/1/2014 (Rev. 20) • FF 2/2/2015 (Rev. 21) • FF 4/27/2015 (Rev. 22) • FF 5/4/2015 (Rev. 23) • FF 7/30/15 (Rev. 24) • FF 9/3/15 (Rev. 25) • FF 11/27/15 (Rev. 26) • FF 1/25/17 (Rev. 27) • FF 3/6/17 (Rev. 28) • FF 4/3/17 (Rev. 29 and 30) • FF 5/10/17 (Rev. 31) • FF 7/27/17 (Rev. 32 and 33) • FF 9/8/17 (Rev. 34) • FF 11/14/17 (Rev. 35) 	<ul style="list-style-type: none"> • Cascading changes from Intermediate (60%) Design and 60% Design Addendum. • Cascading changes from the Freshwater Source Evaluation and Comment Resolution schedule. • Cascading changes from Pre-Final (90%) Design. • Cascading changes from State CEQA Review/approval of Final Design and C/RAWP.
<p>Construction</p> <p>(Lines 1690-1706)</p>	<p>FF for completion of construction</p> <ul style="list-style-type: none"> • 6/18/2014 (Rev. 11) • 6/26/2014 (Rev. 12) • 8/18/2014 (Rev. 13) • 9/29/2014 (Rev. 14) • 2/26/2015 (Rev. 15) • 9/17/2015 (Rev. 16) • 12/4/2015 (Rev. 17) • 9/16/2016 (Rev. 18) • 10/17/2016 (Rev. 19) • 11/8/2016 (Rev. 20) • 1/10/2017 (Rev. 21) • 4/5/2017 (Rev. 22) • 4/13/2017 (Rev. 23) • 6/25/2018 (Rev. 24) • 7/30/2018 (Rev. 25) • 10/15/2018 (Rev. 26) • 12/18/2019 (Rev. 27) 	<ul style="list-style-type: none"> • Cascading extension of schedule from Preliminary (30%) Design. • Cascading extension of schedule from Intermediate (60%) Design Addendum. • Added high level details on construction activities at 60% design stage. • Cascading changes from Intermediate (60%) Design and 60% Design Addendum. • Cascading changes from the Freshwater Source Evaluation and Comment Resolution schedule. • Cascading changes from Pre-Final (90%) Design. • Updated the construction schedule per the September 8, 2014 Pre-Final (90%) Design Submittal. • Cascading changes from approval of Final Design and C/RAWP. • Implementation of phased construction approach.

	<ul style="list-style-type: none"> • 1/29/2020 (Rev. 28) • Phase 1 - 1/28/2019 (Rev. 29 and 30) • Phase 2 - 1/26/2021 (Rev. 29 and 30) • Phase 1 - 3/7/2019 (Rev. 31) • Phase 2 - 3/5/2021 (Rev. 31) • Phase 1 - 5/20/2019 (Rev. 32/33) • Phase 2 - 5/18/2021 (Rev. 32/33) • Phase 1 - 6/27/2019 (Rev. 34) • Phase 2 - 6/25/2021 (Rev. 34) • Phase 1 - 9/6/2019 (Rev. 35) • Phase 2 - 9/6/2021 (Rev. 35) 	
<p>Start-up (Lines 1701, 1703-1705)</p>	<p>FF for completion of startup</p> <ul style="list-style-type: none"> • 12/14/2015 (Rev. 14) • 5/13/2016 (Rev. 15) • 12/2/2016 (Rev. 16) • 2/20/2017 (Rev. 17) • 11/23/2017 (Rev. 18) • 1/2/2018 (Rev. 19) • 1/24/2018 (Rev. 20) • 3/28/2018 (Rev. 21) • 6/21/2018 (Rev. 22) • 6/29/2018 (Rev. 23) • 9/10/2019 (Rev. 24) • 10/15/2019 (Rev. 25) • 12/31/2019 (Rev. 26) • 3/4/2021 (Rev. 27) • 4/15/2021 (Rev. 28) • NTH IRZ - 1/28/2020 (Rev. 29 and 30) • Remaining System - 1/31/2022 (Rev. 29 and 30) • NTH IRZ - 3/6/2020 (Rev. 31) • Remaining System - 3/10/2022 (Rev. 31) 	<ul style="list-style-type: none"> • Cascading extension of schedule from the above items. • Cascading changes from Intermediate (60%) Design and 60% Design Addendum. • Cascading changes from the Freshwater Source Evaluation schedule. • Cascading changes from Pre-Final (90%) Design. • Cascading changes from Construction line items. • Cascading changes from approval of Final Design and C/RAWP. • Implementation of phased construction approach.

	<ul style="list-style-type: none"> • NTH IRZ - 5/19/2020 (Rev. 32/33) • Remaining System - 5/23/2022 (Rev. 32/33) • NTH IRZ - 6/26/2020 (Rev. 34) • Remaining System - 6/30/2022 (Rev. 34) • NTH IRZ - 9/7/2020 (Rev. 35) • Remaining System - 9/9/2022 (Rev. 35) 	
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Soil

<p>Soil RFI/RI Work Plan Implementation/Data Gaps Analysis, and Dioxin/Furan Background Study Work Plan/Implementation (Lines 922-975)</p>	<ul style="list-style-type: none"> • FF 8/16/2013 (Rev. 15) • FF 10/24/2013 (Rev. 16) • FF 9/8/2014 (Rev. 17) • FF 1/19/2015 (Rev. 18) • FF 8/17/2015 (Rev.20) • FF 11/16/2015 (Rev. 22) • FF 11/13/2015 (Rev. 23) • FF 2/29/2016 (Rev. 24) • FF 3/17/2016 (Rev. 25) • FF 7/19/2016 (Rev. 26) • FF 8/15/2016 (Rev. 27) • FF 4/13/2016 (Rev. 28 and 29) • FF 6/1/2016 (Rev.30) • FF 8/17/2016 (Rev. 31) • FF 4/5/2017 (Rev. 32 and 33) • FF 5/31/2017 (Rev. 34) • FF 7/28/2017 (Rev. 35) 	<ul style="list-style-type: none"> • Adjusted schedule to reflect current anticipated approval date and scope of the Final Soil RFI/RI Work Plan. • Cascading changes from Soil Work Plan approval and Soil EIR. • Cascading changes from Soil Work Plan approval. • Changes reflected contractor's best estimate of field implemental schedule. • Addition of Data Gap Work Plans 1 and 2. The additional activities identified in the plans were implemented following agencies' approval. • Adjusted schedule to reflect the additional time required for data evaluation and determination that additional data collection is not required. • Added time for Data Gaps Evaluation. • Additional time for implementing Data Gaps Work Plan #3. Additional time required to obtain permit from Caltrans for data collection in Caltrans' ROW at AOC14. • Addition of the Dioxin/Furan Background Study. Additional time required to receive comments and finalize the Dioxin/Furan Background Study work plan. Implementation of this Work Plan occurred in parallel with that for Data Gaps Work Plan #3. • Additional time required for laboratory analysis of samples.
<p>Soil Risk Assessment (Draft, RTCs, Final, Approvals) (Lines 977 - 996)</p>	<ul style="list-style-type: none"> • FF 7/22/2015 (Rev. 16) • FF 6/7/2016 (Rev. 17) • FF 10/18/2016 (Rev. 18) • FF 5/16/2017 (Rev. 20) • FF 8/15/2017 (Rev. 22) • FF 8/14/2017 (Rev. 23) • FF 11/28/17 (Rev. 24) • FF 12/13/17 (Rev. 25) 	<ul style="list-style-type: none"> • Adjusted schedule to reflect current anticipated schedule for approval of Final Soil RFI/RI Work Plan, completion of Work Plan Implementation/Data Analysis, approval of RFI/RI Vol. 3 Reporting, and approval of the Risk Assessment Work Plan Addendum II. • Cascading changes from Soil Work Plan approval and implementation. • Accelerate Soil Risk Assessment Activities to overlap with Soil Investigation Activities. • Cascading changes from Soil Work Plan implementation/Data Gaps Analysis.

	<ul style="list-style-type: none"> • FF 4/17/2018 (Rev. 26) • FF 5/15/2018 (Rev. 27) • FF 5/22/2017 (Rev. 28 and 29) • FF 6/5/2017 (Rev. 30) • FF 4/20/2018 (Rev. 32 and 33) • FF 6/8/2018 (Rev. 34) • FF 7/30/2018 (Rev. 35) 	<ul style="list-style-type: none"> • Adjusted schedule to reflect the preparation of a Data Summary for EPCs Calculation, and a RTC process in accordance with the October 29, 2012 letter from DTSC to Tribes, titled Response to Comments Process - PG&E Topock Compressor Station, Needles, California • Cascading changes from Work Plan Implementation/Data Gaps Evaluation. • Schedule reflects implementation of Soil RFI-RI-RA RTC protocol.
<p>RFI/RI Vol. 3 Reporting (Draft, RTCs, Final, Approvals) (Lines 997 - 1012)</p>	<ul style="list-style-type: none"> • FF 7/8/2014 (Rev. 15) • FF 10/1/2014 (Rev. 16) • FF 8/18/2015 (Rev. 17) • FF 12/29/2015 (Rev. 18) • FF 7/26/2016 (Rev.20) • FF 10/25/2016 (Rev. 22) • FF 10/24/2016 (Rev. 23) • FF 2/7/2017 (Rev. 24) • FF 2/22/2017 (Rev. 25) • FF 6/27/2017 (Rev. 26) • FF 7/25/2017 (Rev. 27) • FF 2/16/2017 (Rev. 28 and 29) • FF 11/15/2017 (Rev. 30) • FF 10/29/2018 (Rev. 32 and 33) • FF 12/17/2018 (Rev. 34) • FF 2/7/2019 (Rev. 35) 	<ul style="list-style-type: none"> • Adjusted schedule to reflect current anticipated approval date and scope of the Final Soil RFI/RI Work Plan. • Cascading changes from Soil Work Plan approval and Soil EIR. • Cascading changes from Soil Work Plan approval and implementation. • Cascading changes from Soil Work Plan implementation/Data Gaps Analysis. • Adjusted schedule to incorporate results from the soil risk assessment into the RFI/RI Vol. 3 Report, and to reflect a RTC process in accordance with the October 29, 2012 letter from DTSC to Tribes, titled Response to Comments Process - PG&E Topock Compressor Station, Needles, California • Cascading changes from Work Plan Implementation/Data Gaps Evaluation. • Schedule reflects implementation of Soil RFI-RI-RA RTC protocol.