

Handout 9B
Schedule Highlights
Summary of Key Schedule Changes

Consultative Work Group Meeting
February 5, 2020

Schedule Highlights

Groundwater Remedy Construction

No material change since last CWG

- Project Initiation – 10/2/18
- Phase 1 Construction – 10/2/18 to 6/28/21
 - Construction schedule is communicated via:
 - **Daily** list of construction activities
 - **Weekly** emails of 6-week look ahead
 - **Monthly** progress reports
- Turn off IM/IRZ Start-up – Forecast 6/30/21

Soil Risk Assessment

- Risk Assessment Report
 - ✓ Prepare Draft Report – submitted 9/10/18
 - ✓ Review and Comment – 9/11/18 to 1/8/19
 - ✓ Response to Comments/Comment Resolution 1/9/19 to 7/17/19
 - ✓ Prepare Final Report – submitted 10/18/19
 - ✓ Preparing an Errata to the Soil RA Report – target 2/14/2020
 - Include revised text about plant community to address USFWS' comment
 - Could include a refined Risk Based Concentration for Cr(VI) in Appendix RBC for soil management purposes
 - ✓ Anticipate Agencies Approval – 2/28/2020

Soil RFI/RI Reporting (Volume 3)

- Soil RFI/RI Report
 - ✓ Draft Report – Submitted 12/9/19
 - ✓ Review and Comment
 - Tribes and Stakeholder Review: 12/10/19 – 2/28/20
 - Agencies Review: 12/10/19 – 3/13/20
 - Comment Clarification Meeting: TBD
 - ✓ Response to Comments/Comment Resolution
 - Prepare/send RTC Table: May 2020
 - Send meeting agenda: 2 weeks prior to comment resolution mtg
 - Hold comment resolution meeting: TBD
 - ✓ Final Report – forecast August 2020
 - ✓ Agencies Approval – forecast September 2020

Summary of Key Schedule Changes

Handout 10B

Summary of Key Schedule Changes since August 15, 2007 (Rev. 43)

February 5, 2020 changes highlighted in Yellow – changes are from November 6, 2019

Activities	Forecast Schedule Deviation	Key Reasons
Groundwater		
Construction (Lines 1696-1711, 1717)	FF for completion of construction <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) • 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) • Phase 1 - 10/25/2019 (Rev. 36) 	<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 certification of Final SEIR and Agencies' approval of Final Design and C/RAWP. • Implementation of phased construction approach. • Extension of Phase 1 construction schedule reflects temporary shutdown of project in Jan 2019 due to PG&E Chapter 11 bankruptcy filing, approved work variance requests, and current implementation challenges. • Extension of Phase 2 construction schedule reflects the cascading effects of Phase 1 and an extended period for initial operation of the NTH IRZ from 12 to 24 months to get data from a full IRZ operation cycle (6 months on, 18 months off).

	<ul style="list-style-type: none"> • Phase 2 – 10/25/2021 (Rev. 36) • Phase 1 – 10/2/2020 (Rev. 37) • Phase 2 – 9/7/2022 (Rev. 37) • Phase 1 – 9/15/2020 (Rev. 38, 39, & 40) • Phase 1 – 6/28/2021 (Rev. 41, 42, 43) • Phase 2 – 7/1/2024 (Rev. 41, 42, 43) 	
<p>Start-up (Lines 1712 and 1715)</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) • 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) • NTH IRZ – 10/26/2020 (Rev. 36) • Remaining System – 10/28/2022 (Rev. 36) • NTH IRZ – 9/20/2020 (Rev. 37) • Remaining System – 8/25/2022 (Rev. 37) • NTH IRZ – 9/16/2020 (Rev. 38, 39, & 40) • NTH IRZ – 6/30/2023 (Rev. 41, 42, 43) 	<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. • Extension of the completion of NTH IRZ start-up/initial operation reflects changes in a) Phase 1 construction (see above) and b) duration of initial operation from 12 to 24 months to get data from a full IRZ operation cycle (6 months on, 18 months off).

Soil

<p>Soil Risk Assessment (Draft, RTCs, Final, Approvals) (Lines 979 - 998)</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) • 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 and 36) • FF 3/15/2019 (Rev. 37 and 38) • FF 7/29/2019 (Rev. 39 and 40) • FF 11/29/19 (Rev. 41, 42) • FF 2/28/2020 (Rev. 43) 	<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. • 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. • Schedule reflects additional time required for preparation of the Draft Soil Risk Assessment Report, and review/comment on the draft report. • Extension of the completion schedule reflects temporary shutdown of project in Jan 2019 due to PG&E Chapter 11 bankruptcy filing, the time required to respond to comments and resolve comments, and to finalize the report. • Extension of the completion schedule reflects the preparation of an errata to the Soil RA report.
<p>RFI/RI Vol. 3 Reporting (Draft, RTCs, Final, Approvals) (Lines 999 - 1014)</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) 	<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.

	<ul style="list-style-type: none"> • 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 and 36) • FF 9/24/2019 (Rev. 37 and 38) • FF 2/7/2020 (Rev. 39 and 40) • FF 6/9/2020 (Rev. 41) • FF 9/7/2020 (Rev. 42, 43) 	<ul style="list-style-type: none"> • 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. • Cascading changes from Soil Risk Assessment. • Extension of schedule to reflect the additional time needed to incorporate results from the Soil Risk Assessment after agencies' approval. Additional time was also added to allow Tribes, stakeholders, and agencies more time to review the report over end of year holidays.
--	--	--