



GRID STORAGE LAUNCHPAD (GSL) FACILITY Project No. 2019015

Extension of Time Request "EOT"

Delay Analysis Report (Windows Analysis)







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1. Executive Summary

This report demonstrates Harvey-Cleary Builders' entitlement to an extension of time based on events that are beyond Harvey's control and could not be anticipated prior to bidding. The project was impacted by multiple delay events as detailed in Table (2) below, which affected the contractual date for Project Beneficial Occupancy per Table (1) below which summarizes the impact on the contractual project completion milestone.

The delay events affected the critical path of the project throughout each window and caused a loss of momentum and disruption of construction work. For purposes of this analysis, we define a delay as the number of days of critical path delay from the contractual completion date to the actual completion of the project. This report demonstrates Harvey's entitlement to an extension of time and compensation as per Table (1) below which summarizes the impact on the contractual project completion milestone.

This analysis is performed using a contemporaneous Time Impact Analysis (TIA) with a detailed incremental review (Window Method) as shown in Table (1) below. This method finds the impact on the Completion Date of each Milestone at different intermediate cutoff dates in order to see the full impact and how delays have increased from window to window. The chosen time windows represent the schedule updates just before the occurrence of the delay events which are modeled on the same time window.

	Time Window	Schedule Beneficial Occupancy Finish Date	Harvey Delay Days	Harvey Recovery Days	Excusable Delay Days
1	Baseline Schedule Before Occurrence of Delay Events	4/3/2023	-		-
2	Baseline Schedule After Occurrence of Delay Events	7/13/2023	-		101
3	June 2021 Schedule Update Before Occurrence of Delay Events	7/13/2023	-		-
4	June 2021 Schedule Update After Occurrence of Delay Events	12/22/2023	-		162
5	March 2022 Schedule Update Before Occurrence of Delay Events	12/22/2023	-		-
6	March 2022 Schedule Update After Occurrence of Delay Events	7/10/2024	-		201
7	Harvey released gear prior to approval for schedule mitigation.	12/22/2023	-	201	
	Total		-		263

Table (1) Delay Analysis - Combined Impact of All Delay Events

The sum of the total number of days impacted by each delay event amounts to **464 calendar days**. Harvey acted in good faith and attempted to minimize the impact of these delays, and was able to recover 201 days of the delays by taking the risk to release the switchgear early and not wait for the T&V program; accordingly, Harvey is only requesting **263 calendar days**.





	Delay Event	Start	Finish	Impacted Activities
	Window #1: Ba	aseline Schedul	e "March 30 th , 2	2021"
1	Dry room Equipment & Panels Submittal	5/21/2021	7/6/2022	Dry Room Equipment & Panels Submittal
2	Dry room Equipment & Panels Delivery	11/11/2022	2/27/2023	Install Dry room Equipment/Panels
	Window	#2: June 2021 S	chedule Update	
3	Furnish of Lab Layout & Equipment Sheet	9/17/2021	3/10/2022	Electrical Switchgear Submittal
4	Release of Switchgear for Delivery	7/1/2021	6/12/2022	Electrical Switchgear Delivery
5	Additional Duration for Switchgear Delivery	7/26/2023	11/26/2023	Set & Terminate Switch Boards
6	Additional Duration for Commissioning	5/7/2024	7/10/2024	Beneficial Occupancy
	Window #	3: March 2022 S	Schedule Updat	e
7	T&V 2 Program Change	4/1/2022	11/20/2022	Electrical Switchgear Delivery

Table (2) Detailed Incremental Review (Window Method) - Impacted Activities

2. Background and Introduction

Memorial Institute (Battelle), in connection with Battelle's operation and maintenance of the U.S. Department of Energy's (DOE) Pacific Northwest National Laboratory (PNNL) in Richland, Washington under Contract No. DE-AC05-76RL01830 has a need for Design/Build (D/B) services to provide architecture, engineering, design, procurement, construction, and support of Battelle commissioning for a new facility (hereinafter referred to as the "Grid Storage Launchpad (GSL) facility.

2.1. Project Scope of Work

The Project Scope Outline includes but is not limited to the following items:

Preconstruction Phase:

- Permits.
- Permitted set of drawings.
- BIM Model and Coordination.
- Submittals and Approvals.
- Fabrication And Delivery.
- Mobilization.

Construction Phase:

- Site work.
- A "signature" facility, an iconic PNNL landmark symbolic of world-class science.
- Thirty Laboratory module equivalents.
- A Laboratory Suite, or space dedicated to testing and validation of energy storage technologies.
- Workstations, including a combination of hard-walled office "executive suites", hard-walled individual offices, and open landscape partitioned spaces (105 total).





- Lobby and open collaboration spaces, including a second-floor outdoor covered "terrace" area.
- A Visualization space; a multipurpose room for video observation, instruction, and Conferencing.
- Two medium conference rooms.
- Four small conference rooms.
- Six "huddle" conference rooms.
- Laboratory service corridors.
- Interstitial mechanical mezzanines.
- Mechanical, electrical, IT server, and MDF/IDF rooms.
- Loading dock, and shipping/receiving areas.
- Chemical storage room.
- Waste Storage Room.
- Site improvements including required utility infrastructure, paved vehicular parking and access areas, pedestrian circulation, and landscaping.

Closeout Phase:

- Comprehensive Punch List.
- Close out for all permits.
- Substantial Completion.
- Close Out Documents and Manuals.
- Punchlist completion
- Final Completion.
- Demobilization

3. Delay Events

3.1. Delay Event 01 – Dry Room Equipment & Panels Delays

The submittal of the Dry Room Equipment & Panels was originally scheduled to start within 2 weeks of receiving the design NOA on March 31st, 2021, and the Dry Room quote for timeframes that was dated October 30th, 2020 stated that the duration should be 3 to 4 weeks of submittal drawings and 1 week of approval.

Then after receiving the NOA design, PNNL started making changes to finish the Dry Room Equipment and Panels Submittal on July 6th, 2022. This pushed the release of delivery for the Dry Room Equipment & Panels to start on July 7th, 2022.

Due to the delay in the submittal of the Dry Room Equipment & Panels, the delivery duration of the Equipment delivery had to increase to 33 weeks instead of the original 16-18 weeks.

This has an impact on the installation of the Dry Room Equipment and Panels and the Mechanical Equipment Installation for the Lab and hence delaying the startup and commissioning wet.

3.2. Delay Event 02 – Lab Layout & Equipment

Harvey was to finalize the Lab Layout and Equipment Sheet for the Design Development and issue for the layout approval on September 9th, 2021; however, PNNL delayed the lab layout. To reduce the delays that would result from such an event, Harvey had to move forward and make assumptions.





Accordingly, these delays have delayed the submittal of the Electrical Switchgear besides the start of Construction Package 1 and its following successors.

PNNL was eventually able to furnish the Lab Layout and Equipment Sheet on March 10th, 2022 except it was still missing equipment data and we had to proceed with assumptions for missing data.

3.3. Delay Event 03 – Switchgear Delays

Due to the upsized square footage of the building from 85,000 square feet to 94,000 square feet. ERUs had to be upsized to accommodate the added square footage. This change in design has impacted the equipment sizing until the 95% design stage and therefore delayed the submittals of the items including the Electrical Switchgear Submittal. The release of the switchgear delivery is pushed to June 13th, 2022 with a duration of 12 months instead of 8 months. This has an impact on the Setting & Termination of the Switch Boards which was on the critical path.

According to the delays of the switchgear and dry room, and the increase in size of the switchgear, commissioning and startup will take longer time than the original duration expected in the baseline.

3.4. Delay 04 – T&V Program Change

According to ECN#06, T&V Design changes were not finalized until November 11th, 2022. This delay should have impacted the release date for the switchgear had it not been for Harvey's decision to not delay the switchgear release until this item was finalized. This delay is modeled to show the potential impact this had on the beneficial occupancy date and Harvey's mitigation efforts to bring back the finish date of the project.





4. Conclusion

The delays described in this EOT request were disruptive to the project's critical path. The main delay that had the largest impact on overall completion were: the delay in Switchgear release for delivery, the actual delivery duration for the switchgear, and the T&V 2 Design Change. Harvey acted in good faith and attempted to minimize the impact of these delays, and actually managed to recover a big portion of the delay days. However, Harvey believes that it is entitled to excusable and compensable additional time for the delays as they were beyond Harvey's control and could not be anticipated prior to bidding.

The EOT Report demonstrates that Harvey- Cleary Builders is entitled to excusable and compensable delay days from April 3rd, 2023 to December 22nd, 2023 which represents a duration of **263 consecutive calendar days**.





Appendix (A): Baseline Schedule – Detailed Schedule Before Occurrence of Delay <u>Events</u>

	ivity ID Activity Name Original			PNNL GSL Baseline Schedule (before adding delays) Detailed Schedule										HARVEY. CLEARY Innovation, Quality, Integrity																					
ctivity ID	Activity Name	Original Duration	Start	Finish	Mar	Ap	or M	ay .	202 Iun		Aug	Sep	Oct	Nov	/ Dec	Ja	ın F	eb M	lar	Apr	May .	202 Iun	2 Jul	Aug	Sep		Dct	Nov	Dec	; Jar			2023 Mar		Ма
PNNL GS	L Baseline Schedule (before adding delays)	762	31-Mar-21	01-May-23	Widi	/ W					/ ug	COP	001			1 04				7.01				7 tug		<u> </u>					<u> </u>		widi		
	s & Milestones	755	31-Mar-21	01-May-23		:	: : :	: : :	:	:	1			:	5 5 5	:	-	:	:	:	1 1 1	:			:		:	:		: : :		1 1 1		1 1 1	:
A1000	NOA Design	0	31-Mar-21			♦ NC	OADes	sian	:	:	:			: : :	5 5 5	:	:	:	:	:	1 1 1	: : :	:		:	:	:	:		:		:		1 1 1	:
A1830	Construction Start Package 1	0	01-Feb-22		-									-	1		÷ (Constru	ction	Start P	ackage 1													1	
A1820	Construction Start Package 2	0	01-Jun-22		-	:	-	1						- - -	5 5 5		1		1			: Const	uction	Start I	Packag	ge 2	1					1		1	
A1800	Beneficial Occupancy	0		03-Apr-23*	1																				-									🔶 Ber	neficia
A1810	Final Completion	0		01-May-23*										-							1		-											1	🔶 Fin
Design P	hase	402	31-Mar-21	06-May-22											1						-								1						
A1010	SSU SDs	55	31-Mar-21	24-May-21		1	-		SU SD	۹ ۱				: : :	5 5 5	-					1	-								: : :					-
A1130	MEP BIM Coordination	402	31-Mar-21	06-May-22	-	1			0000	3				-	1					1	MEP E		ordina	tion			1					1		1	-
A1020	SSU DDs	42	25-May-21		+					SSU	DDs			• • • • • • • •		÷												;							
A1030	SSU IFC	189	06-Jul-21	10-Jan-22	-	:	:			ooq	550			:	:	:	SSU I	IFC	:	:	1	:	:		:	:	:			:		1		1 1 1	:
A1030	Building Package - SDs	16	06-Jul-21	21-Jul-21	-	1	-	-		Ř	uilding	Packa	ae - SC)s	5 5 5				:		- - 				:	1				1					1
A1040	Building Package - DDs	91	22-Jul-21	20-Oct-21	-	1 1 1	1 1 1	1 1 1			unun ig		-		ng Packa	ade -	DDs	:	1		1	1				1	: : :			: : :	: : :	1		1 1 1	
A1030	Finalize Lab Layout & Equipment Sheet and Issue for Layout Approva	57	22-Jul-21	16-Sep-21	-		-	-			1	F			ayout & l	, e		Sheet	and le	ssue foi	Lavout		al								1	1			
A2410	Building Pricing Set	6	28-Sep-21	03-Oct-21											riçing Se											• = + = =									
A2300	Building Package - 95% CD	170	20 00p 21 21-Oct-21	08-Apr-22	-									quing i	ing oo	1	-	:	1	Build	ing Pacl	ane -	: 95% C	:D											
A1090	Building Package - IFC	28	09-Apr-22	· ·	-									: : :	5 5		-	:	:		Buildir	-			- - - -				1						
		443	12-Apr-21	29-Jun-22		: : :		-						: : :	5 5 5		-				Dailai	gruo	uge		5 5 5		:			:	-				
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Submittals		203	12-Apr-21	31-Oct-21					····2	· · · · ·												·					4	;		·					
A2020	Dryroom Equipment/Panels	28	12-Apr-21	09-May-21	-			Dryroo	om ⊨qi	upmer	nt/Panel	IS		- 					:	:	1	:			: : :		:			:		1		1	
A1870	HVAC/Exhaust Equipment	28	04-Oct-21	31-Oct-21	-		1	1		1					AC/Exha	aust E	quipm	hent			1	1			1		1			1		1		1	1
A1940	Chillers	28	04-Oct-21	31-Oct-21	-	:					-			-	illers	-					1											-			
A1960	Pumps	28	04-Oct-21	31-Oct-21	_										mps						1				1					1		1		1	
A2040	Boiler	28	04-Oct-21	31-Oct-21										Boi														}							
A2050	Network Equipment/BAS Controls/Access Controls	28	04-Oct-21	31-Oct-21	-	:									twork Eq			AS Cont	trois/ <i>F</i>	Access	controls														
A2060	Electrical Switchgear	28		31-Oct-21	_										ctrical Sv	witchg	jear				-				5 5 5					:	÷				
A2070	Generator	28	04-Oct-21	31-Oct-21	-	: : :	:	-		:				-	nerator		-			:	1	-			5 5 5		1	:		:	-	-		: : :	
A2100	Elevators	28		31-Oct-21	-	:	:	:	:	:					vators	-				:	1	:			: : :	:	1			:		-		1	:
A2210	Transformers and Disconnects	28	04-Oct-21	31-Oct-21											nsformer				<u>.</u>			·													
A2340	Uninterrupted Power Supply	28	04-Oct-21	31-Oct-21	-	:	-	-	:						interrupte	ed Po	ower S	uppiy			1	:			: : :		:			:	-	1		1	
A2420	ТРО	28	04-Oct-21	31-Oct-21	-		1	1						TP(0		-				1	1			1		1			1		1		1	
Delivery		415		29-Jun-22		:			:								-				1				1		-					1			
A01036	Dryroom Equipment/Panels	126	-	12-Sep-21	-	1		1		1		_ Dr	yroom	Equip	ment/Pa		11.40	مراتب ا												-					
A00984	HVAC/Exhaust Equipment	73		12-Jan-22	 									1				C/Exhau	ust eo	lnibmei	IL 				; ;			;							
A01033	Chillers	73	01-Nov-21		-	: : :		-							1		Chille				-									: : :		1			
A01041	Pumps	74		13-Jan-22	-	:	-	-			1				1	:	Pump	• :	1	1	1				:					:		1			:
A01009	Boiler Network Equipment/BAS Controls/Access Controls	73 75		12-Jan-22 14-Jan-22	-	:	: :	1 1 1		1	1			1	:	;	Boiler		uinm-	nt/DAD	Control	10000		trole	:		1	:		:		1		1	
A00987					-	: : :	2 2 2	: : :	:	:	:				:	:	inetw	WIK EQL	upme	IN BAS	Control				uit ch ~-		: : :		1	: : :		1 1 1		1 1 1	:
A00989	Electrical Switchgear Generator	240		29-Jun-22 09-May-22	 	- L					·] Gene			cal SN	vitchgea	ai;	· 4 -								
A00990 A00991	Elevators	190 100		09-May-22 08-Feb-22	-	:	-	1			1	1			1	1		Elėvat	tom		Gene	alur				1		1 1 1 1	1			1			
A00991 A1702	Tran sformers and Discon nects	150		30-Mar-22	-		-				1				:	1	:	Lieval		Tranaf	ormers a	d Dia		cte		-									
A1702 A2350	Uninterrupted Power Supply	150		09-May-22	-	1									1	1	1	:	_	nansi	I Unint				nnly			;							
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A1670	Foundations/SOG - Lab	20		07-Mar-22	_	:		-	:	:	- - 			:	5 5 5	:			Foun		/SOG - L	1				1				1		1		: : :	
A1700	Foundations/SOG - Office/T&V Areas	25		19-Apr-22	-	: : :	: : :	-	:	:	1			1 1 1	5 5 5	: : :	:	:	:		undatio	1				IS	1 1 1			:	1 1 1	1		: : :	:
A1690	Foundations/SOG - HPIL	10	· ·	05-May-22	 	-															Found	ations	SOG	HPIL											
	ture	70	08-Mar-22	11-Jul-22	1	1								1		1										1		;	4						i





	ARCHITECTURE			PNN	L GSL Baseline Schedule (before adding delays) Detailed Schedule	HARVEY, Integrity
Activity ID	Activity Name	Original Duration	Start	Finish	2021 Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar A	2022 2023 Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May
A1730	Erection and Decking - Lab	40	08-Mar-22	16-May-22	Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar A	vpr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Erection and Decking - Lab
A1750	Erection and Decking - Office/T&V Areas	45	20-Apr-22			Erection and Decking - Office/T&V Areas
A1790	Erection and Decking - HPIL	10	· ·	24-May-22		Erection and Decking - HPIL
Building		153		08-Feb-23		
Building E	inclosure	73	09-May-22	15-Sep-22		
A1780	CMU Walls "HPIL & T&V 2 Suite"	18		07-Jun-22		CMU Walls "HPIL & T&V 2 Suite"
A1630	Interstitial Exteriors	22	-	23-Jun-22		Interstitial Exteriors
A1640	Install Building Facades	40	-	04-Aug-22		Install Building Facades
A1650	Install Terrace/Soffit	23	-	15-Sep-22		Install Terrace/Soffit
Roof		45	-	18-Aug-22		
A00142	TPO - Lab	14		23-Jun-22		TPO - Lab
A00140	Parapet Framing and Sheathing	14		27-Jun-22		Parapet Framing and Sheathing
A1540	Set Roof Top Equipment	10	27-Jun-22			Set Roof Top Equipment
A00145	TPO - Office/T&V Areas	14	12-Jul-22	03-Aug-22		TPO - Office/T&V Areas
A00144	TPO - HPIL	9	04-Aug-22	18-Aug-22		TPO - HPIL
Interior La	b Buildout	139	01-Jun-22	08-Feb-23		
A2370	[Lab] Framing/Rough-ins	9	01-Jun-22	15-Jun-22		🔲 [Lab] Framing/Rough-ins
A2380	[Lab] Drywall/Finishes/Paint	19	27-Jun-22	28-Jul-22		[Lab] Drywall/Finishes/Paint
A1490	[Lab] Install UPS	35	01-Aug-22	29-Sep-22		[Lab] Install UPS
A2390	[Lab] Set Equipment in Electrical Room	18	01-Aug-22	30-Aug-22		[Lab] Set Equipment in Electrical Room
A1510	[Lab] Install East Lab BOH/Corridors	8	31-Aug-22	14-Sep-22		[Lab] Install East Lab BOH/Corridors
A1600	[Lab] Install Labs	45	15-Sep-22	05-Dec-22		[Lab] Install Labs
A2330	[Lab] Install Dryroom Equipment/Panels	15	15-Sep-22	11-Oct-22		[Lab] Install Dryroom Equipment/Panels
A1520	[Lab] Install MDF	18	12-Oct-22	10-Nov-22		[Lab] Install MDF
A1530	[Lab] Instal Mech Equipment	16	12-Oct-22	08-Nov-22		[Lab] Instal Mech Equipment
A2400	[Lab] Install Transformers	25	12-Oct-22	23-Nov-22		[Lab] Install Transformers
A1470	[Lab] Set & Terminate Switch Boards	30		30-Jan-23		[Lab] Set & Terminate Swit
A1500	[Lab] Final Inspections	6	31-Jan-23			[Lab] Final Inspections
Office Inte	rior Buildout	103	12-Jul-22	12-Jan-23		
A1230	[Office] Framing/Rough-ins	15		04-Aug-22		[Office] Framing/Rough-ins
A1240	[Office] Drywall/Finishes/Paint	24		19-Sep-22		[Office] Drywall/Finishes/Paint
A1280	[Office] MEP Ceiling and Wall Trimouts	18	-	19-Oct-22		[Office] MEP Ceiling and Wall Trimouts
A1360	[Office] Install Elevators	45	· · · · · · · · · · · · · · · · · · ·	07-Dec-22		[Office] Install Elevators
A1320	[Office] Final Clean	3		13-Dec-22		[Office] Final Clean
A1330	[Office] Harvey Punch / Completion	1		14-Dec-22		I [Office] Harvey Punch / Completion
A1370	[Office] Install Office Restrooms	15		12-Jan-23		[Office] Install Office Restroom
Sitescape	Concentry Ded/Concentry	107		12-Dec-22		
A1400	Generator Pad/Generator	14		27-Jun-22		Generator Pad/Generator
A2310	Hardscape	17		07-Nov-22		
A2320	Landscape Site Europhing	12		29-Nov-22		
A1420	Site Furnishing	7		12-Dec-22 01-May-23		Site Furnishing
Closeou		107		-		
A1430	Demobilize Onsite Offices	10		07-Nov-22		
A1440	Startup and Commissioning Wet	30		07-Mar-23		Staitup and Com
A2440	Startup and Commissioning Electrical	30		03-Apr-23		Startup and
A00714	Final Documentation	16	04-Apr-23	01-May-23		Fina

Remaining Level of Effort Actual Work Actual Level of Effort

Critical Remaining Work

Remaining Work

Milestone



HSSE CPM SCHEDULING CONSULTANTS





Appendix (B): Baseline Schedule – Longest Path Schedule Before Occurrence of Delay Events

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Activity ID	Activity Name	Original Duration	Start	Finish	Mar	Apr	May	20 Jun)21 Jul	A	Sep	Oct	Nov	Dec	Jan	- Coh	Mar	Apr	May		022 Jul	
PNNL G	SL Baseline Schedule (before adding delays)	762	31-Mar-21	01-May-23	IVIAI		IVIAY	Jun	Jui	Aug	Seh	ou		Dec	Jan	Tep	Iviai		Iviay	Jun	Jui	A
	tes & Milestones	755	31-Mar-21	01-May-23					- 				- - - - -	:		2 2 2	- - - -	- - - -	: : :		2 2 2	
A1000	NOA Design	0	31-Mar-21		•	NOA I	: Desigr	n	5 5 5	: : :	: : :		: : :	5 5 5	: : :	: : :	5 5 5	: : :	5 5 5	: : :	2 2 2	: : :
A1800	Beneficial Occupancy	0		03-Apr-23*				-	1 1 1	:			:	1 1 1 1	: : :	1 1 1	5 5 5	: : :	: : :	: : :	1 1 1	: : :
A1810	Final Completion	0		01-May-23*										-	-		-			1	-	
A1830	Construction Start Package 1	0	01-Feb-22		1								; ;			🔶 Co	nstruct	ion Sta	art Pacl	kage 1		 !
Design	Phase	286	31-Mar-21	10-Jan-22					1 1 1					1			-			1		
A1010	SSU SDs	55	31-Mar-21	24-May-21				SSU \$	SDs	: : :				1 1 1	1		-	-	1 1 1	1		
A1020	SSU DDs	42	25-May-21	05-Jul-21			ė		ss	U DDs				:	-		-		: : :	-		-
A1030	SSU IFC	189	06-Jul-21	10-Jan-22										;	s 🗖	s SU IF	Ċ	-	: : :	:		
SSU		60	01-Feb-22	16-May-22	1								 			· · · · · ·						
Foundat	tions	20	01-Feb-22	07-Mar-22		2 2 2 2 2 2 2 2		-	: : :	:	: : :		: : :	5 5 5 5	: : :	1 1 1	5 5 5	: : :	: : :	: : :	1 1 1	: : :
A1670	Foundations/SOG - Lab	20	01-Feb-22	07-Mar-22				-	1 1 1 1	:			:	1 1 1 1	1 1 1		Fc	undat	ions/SC	G - La	ib.	: : :
Steel Str	ructure	40	08-Mar-22	16-May-22										-	-		-			1	-	
A1730	Erection and Decking - Lab	40	08-Mar-22	16-May-22					1											Erectio	n and I	Decl
Buildin	g	148	17-May-22	08-Feb-23	1																	
Building	Enclosure	22	17-May-22	23-Jun-22					5 5 5	: : :			: : :	5 5 5			-	: : :	1 1 1	1 1 1	-	
A1630	Interstitial Exteriors	22	17-May-22	23-Jun-22					1 1 1	:			-	5 5 5	: : :	: : :	: : :	: : :			Inters	titial
Roof		14	31-May-22	23-Jun-22					: : :	:				5 5 5	:	:	:	:	: : :	: : :	1	:
A00142	TPO - Lab	14	31 - May-22	23-Jun-22				-	- 	:			-	5 5 5	:	- - -	- - - -	- - - -	- - - -		TPO -	- Lat
Interior L	Lab Buildout	126	27-Jun-22	08-Feb-23					! : : :	· I= = = = = = = = = = = = = = = = = = =	1		• : :	 : : :		- 1 1 1 1	 : : :			· •	1 1 1	*
A1470	[Lab] Set & Terminate Switch Boards	30	06-Dec-22	30-Jan-23					: : :					: : :	: : :	: : :	: : :		: : :	: : :	: : :	-
A1500	[Lab] Final Inspections	6	31-Jan-23	08-Feb-23										-	-		-			1		-
A1510	[Lab] Install East Lab BOH/Corridors	8	31-Aug-22	14-Sep-22										- - - -	- - - -				1	- - - -	-	
A1600	[Lab] Install Labs	45	15-Sep-22	05-Dec-22																		
A2380	[Lab] Drywall/Finishes/Paint	19	27-Jun-22	28-Jul-22										-	-		-				:	[[L
A2390	[Lab] Set Equipment in Electrical Room	18	01-Aug-22	30-Aug-22					- 1 1					-			-	-				
Closeo	ut	46	09-Feb-23	01-May-23					5 5 5	:			: : :	5 5 5	: : :	1 1 1	2 2 2	: : :	5 5 5	1 1 1 1	2 2 2	: : :
A00714	Final Documentation	16	04-Apr-23	01-May-23				-	: : :	:	:		: : :	5 5 5	: : :	: : :	5 5 5	: : :	: : :	: : :	1 1 1	: : :
A2440	Startup and Commissioning Electrical	30	09-Feb-23	03-Apr-23					: :	:	1		:	2 2 2	:	5 5 5	5 5	: : :	: : :	:	1 1 1	:



					-			2023			
Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul
-											
1								♦ Ber	eficial	Occup	ancy
									Fina	Comp	bletion
-											
cking) - Lab										
al Ex	teriors										
ab											
						[] al	10-4		nata C	uitala 17	
									inate S ections		boards
	— []	ab] In	stall Ea	st Lab	BOH/	-	-	ainisp	CCUOIIS	>	
		Lab] III			p] Insta						
[Lab]	Drywa	all/Finis	hes/Pa								
			quipm		Electric	al Roc	m				
	_										
									Fina	Docu	mentat
								Sta	rtup an		







Appendix (C): Baseline Schedule – Detailed Schedule After Occurrence of Delay Events

	Kirksey		PNI	NL GSL Ba	Detailed Schedule (after adding delays) Detailed Schedule
ivity ID	Activity Name	Original Duration	Start	Finish	2021 2022 2023 Max Max
DMML CS	SL Baseline Schedule (after adding delays)	853	31-Mar-21	10-Aug-23	Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Au
		853	31-Mar-21	10-Aug-23	
	es & Milestones			10-Aug-25	
A1000	NOA Design	0	31-Mar-21		◆ NOA Design
A1830	Construction Start Package 1	0	01-Feb-22		Construction Start Package 1
A1820	Construction Start Package 2 Beneficial Occupancy	0	01-Jun-22	13-Jul-23*	◆ Construction Start Package 2
A1800 A1810	Final Completion	0		10-Aug-23*	♦ Ben
	-	652	10-May-21	27-Feb-23	
Delay Fr					
	Equipment & Panels	652	10-May-21	27-Feb-23	
A2450	Delay in Finish of Dryroom Equipment & Panels Submittal	421	10-May-21	06-Jul-22	Delay in Finish of Dryroom Equipment & Panels Submittal
A2460	Additional Duration for Dryroom Equipment & Panels Delivery	105	11-Nov-22	27-Feb-23	Additional Duration for Dryroor
Design F		402	31-Mar-21	06-May-22	
A1010	SSU SDs	55	31-Mar-21	24-May-21	SSU SDs
A1130	MEP BIM Coordination	402	31-Mar-21	06-May-22	MEP BIM Coordination
A1020	SSU DDs	42	25-May-21	05-Jul-21	SSU DDs
A1030	SSU IFC	189	06-Jul-21	10-Jan-22	S\$U IFC
A1040	Building Package - SDs	16	06-Jul-21	21-Jul-21	Building Package - SDs
A1050	Building Package - DDs	91	22-Jul-21	20-Oct-21	Building Package - DDs
A2290	Finalize Lab Layout & Equipment Sheet and Issue for Layout Approva	57	22-Jul-21	16-Sep-21	Finalize Lab Layout & Equipment Sheet and Issue for Layout Approval
A2410	Building Pricing Set	6	28-Sep-21	03-Oct-21	Building Pricing Set
A2300	Building Package - 95% CD	170	21-Oct-21	08-Apr-22	Building Package - 95% CD
A1090	Building Package - IFC	28	09-Apr-22	06-May-22	Building Package - IFC
Procure	nent	575	12-Apr-21	10-Nov-22	
Submittal	S	203	12-Apr-21	31-Oct-21	
A2020	Dryroom Equipment/Panels	28	12-Apr-21	09-May-21	Dryroom Equipment/Panels
A1870	HVAC/Exhaust Equipment	28	04-Oct-21	31-Oct-21	HVAC/Exhaust Equipment
A1940	Chillers	28	04-Oct-21	31-Oct-21	Chillers
A1960	Pumps	28	04-Oct-21	31-Oct-21	Pumps
A2040	Boiler	28	04-Oct-21	31-Oct-21	Boiler
A2050	Network Equipment/BAS Controls/Access Controls	28	04-Oct-21	31-Oct-21	Network Equipment/BAS Controls/Access Controls
A2060	Electrical Switchgear	28	04-Oct-21	31-Oct-21	Electrical Switchgear
A2070	Generator	28	04-Oct-21	31-Oct-21	Generator
A2100	Elevators	28	04-Oct-21	31-Oct-21	Elevators
A2210	Transformers and Disconnects	28	04-Oct-21	31-Oct-21	Transformers and Disconnects
A2340	Uninterrupted Power Supply	28	04-Oct-21	31-Oct-21	Uninterrupted Power Supply
A2420	ТРО	28	04-Oct-21	31-Oct-21	TPO
Delivery		372	01-Nov-21	10-Nov-22	
A00984	HVAC/Exhaust Equipment	73	01-Nov-21	12-Jan-22	HVAC/Exhaust Equipment
A01033	Chillers	73	01-Nov-21	12-Jan-22	Chillers
A01041	Pumps	74	01-Nov-21	13-Jan-22	Pumps
A01009	Boiler	73	01-Nov-21	12-Jan-22	Boiler
A00987	Network Equipment/BAS Controls/Access Controls	75	01-Nov-21	14-Jan-22	Network Equipment/BAS Controls/Access Controls
A00989	Electrical Switchgear	240	01-Nov-21	29-Jun-22	Electrical Switchgear
A00990	Generator	190	01-Nov-21	09-May-22	Génerator
A00991	Elevators	100	01-Nov-21	08-Feb-22	Elevators
A1702	Transformers and Disconnects	150	01-Nov-21	30-Mar-22	Transformers and Disconnects
A2350	Uninterrupted Power Supply	190	01-Nov-21	09-May-22	Uninterrupted Power Supply
A2430	TPO	90	01-Nov-21	29-Jan-22	
A01036	Dryroom Equipment/Panels	126 90	07-Jul-22 01-Feb-22	10-Nov-22 11-Jul-22	Dtyroom Equipment/Panels
SSU					

Critical Remaining Work Page 1 of 2 Remaining Level of Effort Actual Work Actual Level of Effort Remaining Work

Milestone





	Kirksey		PN	NL GSL B	eline Schedule (after adding delays) Detailed Schedule	HARVEY CLEARY
/ ID	Activity Name	Original Duration	Start	Finish	2021	2022 2023
Foundatio		55	01-Feb-22	05-May-22	far Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr	May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul
A1670	Foundations/SOG - Lab	20	01-Feb-22	07-Mar-22	Founda	ions/SOG - Lab
A1700	Foundations/SOG - Office/T&V Areas	20	08-Mar-22	19-Apr-22		Foundations/SOG - Office/T&V Areas
A1690	Foundations/SOG - HPIL	10	20-Apr-22	05-May-22		Foundations/SOG - HPIL
teel Struc		70	08-Mar-22	11-Jul-22		
A1730	Erection and Decking - Lab	40	08-Mar-22	16-May-22		Erection and Decking - Lab
1750	Erection and Decking - Office/T&V Areas	45	20-Apr-22	11-Jul-22		Erection and Decking - Office/T&V Areas
1790	Erection and Decking - HPIL	10	09-May-22	24-May-22		Erection and Decking - HPIL
uilding		209	09-May-22	17-May-23		
	nclosure	73	09-May-22	15-Sep-22		
1780	CMU Walls "HPIL & T&V 2 Suite"	18	09-May-22	07-Jun-22		CMU Walls "HPIL & T&V 2 Suite"
1630		22	17-May-22	23-Jun-22		
1640	Install Building Facades	40	25-May-22	04-Aug-22		Install Building Facades
1650	Install Terrace/Soffit	23	08-Aug-22	15-Sep-22		
bof		45	31-May-22	15-Sep-22 18-Aug-22		
00142	TPO - Lab	14	31-May-22	23-Jun-22		TPO - Lab
.00142	Parapet Framing and Sheathing	14	01-Jun-22	23-Jun-22 27-Jun-22		Parapet Framing and Sheathing
1540	Set Roof Top Equipment	14	27-Jun-22	13-Jul-22		Set Roof Top Equipment
.00145	TPO - Office/T&V Areas	10	12-Jul-22	03-Aug-22		TPO - Office/T&V Areas
00143	TPO - HPIL	9	04-Aug-22	18-Aug-22		
	Buildout	195	01-Jun-22	17-May-23		
2370	[Lab] Framing/Rough-ins	9	01-Jun-22	15-Jun-22		🔲 [Lab] Framing/Rough-ins
2380	[Lab] Drywall/Finishes/Paint	19	27-Jun-22	28-Jul-22		[Lab] Drywall/Finishes/Paint
1490	[Lab] Install UPS	35	01-Aug-22	29-Sep-22		
2390	[Lab] Set Equipment in Electrical Room	18	01-Aug-22	30-Aug-22		[Lab] Install of 9
1510	[Lab] Install East Lab BOH/Corridors	8	31-Aug-22	14-Sep-22		Labj der Equipment in Electrical Room
1600	[Lab] Install Labs	45	15-Sep-22	05-Dec-22		[Lab] Install Labs
1470	[Lab] Set & Terminate Switch Boards	30	06-Dec-22	30-Jan-23		[Lab] Instal Labs
2330	[Lab] Install Dryroom Equipment/Panels	15	28-Feb-23	23-Mar-23		
1520	[Lab] Install MDF	18	27-Mar-23	25-Apr-23		[Lab] Install MD
1530	[Lab] Instal Mech Equipment	16	27-Mar-23	20-Apr-23		[Lab] Instal Mec
2400	[Lab] Install Transformers	25	27-Mar-23	08-May-23		
1500	[Lab] Final Inspections	6	09-May-23	17-May-23		[Lab] Final
	ior Buildout	103	12-Jul-22	12-Jan-23		
1230	Office] Framing/Rough-ins	15	12-Jul-22	04-Aug-22		[Office] Framing/Rough-ins
1240	[Office] Drywall/Finishes/Paint	24	08-Aug-22	19-Sep-22		[Office] Drywall/Finishes/Paint
1280	[Office] MEP Ceiling and Wall Trimouts	18	20-Sep-22	19-Oct-22		[Office] MEP Ceiling and Wall Trimouts
1360	[Office] Install Elevators	45	20-Sep-22	07-Dec-22		[Office] Install Elevators
1320	[Office] Final Clean	3	08-Dec-22	13-Dec-22		[Office] Final Clean
1330	[Office] Harvey Punch / Completion	1	14-Dec-22	14-Dec-22		[[Office] Harvey Punch / Completion
1370	[Office] Install Office Restrooms	15	15-Dec-22	12-Jan-23		[Office] Install Office Restrooms
tescape		107	01-Jun-22	12-Dec-22		
1400	Generator Pad/Generator	14	01-Jun-22	27-Jun-22		Generator Pad/Generator
2310	Hardscape	17	10-Oct-22	07-Nov-22		
2320	Landscape	12	08-Nov-22	29-Nov-22		
1420	Site Furnishing	7	30-Nov-22	12-Dec-22		🔲 Site Furnishing
oseout		163	20-Oct-22	10-Aug-23		
						🗖 Domohilizo Onoito Officeo
430	Demobilize Onsite Offices	10	20-Oct-22	07-Nov-22		Demobilize Onsite Offices
440	Startup and Commissioning Wet	30	03-May-23	27-Jun-23		Sta
2440 00714	Startup and Commissioning Electrical	30	18-May-23	13-Jul-23		
11/14	Final Documentation	16	17-Jul-23	10-Aug-23		

Remaining Level of Effort Actual Work Critical Remaining Work	Page 2 of 2	
Actual Level of Effort Remaining Work Milestone		







Appendix (D): Baseline Schedule – Longest Path Schedule After Occurrence of Delay Events

	Kirksey			PNNL C	SL Baseline Schedule (after adding delays) Longest Path Schedule
Activity ID	Activity Name	Original Duration	Start	Finish	
PNNL G	SL Baseline Schedule (after adding delays)	853	31-Mar-21	10-Aug-23	Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct
	es & Milestones	853	31-Mar-21	10-Aug-23	
A1000	NOA Design	0	31-Mar-21		◆ NOA Design
A1800	Beneficial Occupancy	0		13-Jul-23*	◆ Beneficial Occupan
A1810	Final Completion	0		10-Aug-23*	♦ Fihal Còmplet
Delay Fi	agnets	652	10-May-21	27-Feb-23	
	Equipment & Panels	652	10-May-21	27-Feb-23	
A2450	Delay in Finish of Dryroom Equipment & Panels Submittal	421	10-May-21	06-Jul-22	Delay in Finish of Dryroom Equipment & Panels Submittal
A2460	Additional Duration for Dryroom Equipment & Panels Delivery	105	11-Nov-22	27-Feb-23	Additional Duration for Dryroom Equipment &
Procure	ment	575	12-Apr-21	10-Nov-22	
Submitta	ls Is	28	12-Apr-21	09-May-21	
A2020	Dryroom Equipment/Panels	28	12-Apr-21	09-May-21	Dryroom Equipment/Panels
Delivery		126	07-Jul-22	10-Nov-22	
A01036	Dryroom Equipment/Panels	126	07-Jul-22	10-Nov-22	Divroom Equipment/Panels
Building		46	28-Feb-23	17-May-23	
Interior L	ab Buildout	46	28-Feb-23	17-May-23	
A1500	[Lab] Final Inspections	6	09-May-23	17-May-23	[Lab] Final Inspections
A1530	[Lab] Instal Mech Equipment	16	27-Mar-23	20-Apr-23	[Lab] Instal Mech Equipment
A2330	[Lab] Install Dryroom Equipment/Panels	15	28-Feb-23	23-Mar-23	[Lab] Install Dryroom Equipment/Panels
A2400	[Lab] Install Transformers	25	27-Mar-23	08-May-23	[Lab] Install Transformers
Closeou	it	46	18-May-23	10-Aug-23	
A00714	Final Documentation	16	17-Jul-23	10-Aug-23	Final Docume
A2440	Startup and Commissioning Electrical	30	18-May-23	13-Jul-23	Startup and Comm







Appendix (E): June 2021 Schedule Update – Detailed Schedule Before Occurrence of Delay Events

	Kirksey		PN	INL GSL	June Update (before adding delays) Detailed Schedule
ctivity ID	Activity Name	Original	Start	Finish	
	21 June Lindete (hefere edding delaye)	853	31-Mar-21 A	10-Aug-23	Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug
	SL June Update (before adding delays)	669	31-Mar-21 A		
	es & Milestones			10-Aug-23	I
A1000	NOA Design	0	31-Mar-21 A		◆ NOA Design
A1830	Construction Start Package 1	0	01-Feb-22		Construction Start Package 1
A1820	Construction Start Package 2	0	01-Jun-22	40.1.1.00*	◆ Construction Start Package 2
A1800	Beneficial Occupancy	0		13-Jul-23*	
A1810	Final Completion	0 508	01 May 01 A	10-Aug-23*	
Delay Fr			21-May-21 A	27-Feb-23	
	Equipment & Panels	508	21-May-21 A	27-Feb-23	
A2450	Delay in Finish of Dryroom Equipment & Panels Submittal	421	21-May-21 A	06-Jul-22	
A2460	Additional Duration for Dryroom Equipment & Panels Delivery	105	11-Nov-22	27-Feb-23	
Design I	Phase	489	31-Mar-21 A	06-May-22	
A1010	SSU SDs	55	31-Mar-21 A	24-May-21	1 SSU SDs
A1130	MEP BIM Coordination	305	31-Mar-21 A	06-May-22	
A1020	SSU DDs	42	25-May-21 A	05-Jul-21	SSU DDs
A1030	SSU IFC	189	06-Jul-21	10-Jan-22	2 S\$U IFC
A1040	Building Package - SDs	16	06-Jul-21	21-Jul-21	Building Package - SDs
A1050	Building Package - DDs	91	22-Jul-21	20-Oct-21	Building Package - DDs
A2290	Finalize Lab Layout & Equipment Sheet and Issue for Layout Approva	57	22-Jul-21	16-Sep-21	1 Finalize Lab Layout & Equipment Sheet and Issue for Layout Approval
A2410	Building Pricing Set	6	28-Sep-21	03-Oct-21	Building Pricing Set
A2300	Building Package - 95% CD	170	21-Oct-21	08-Apr-22	Building Package - 95% CD
A1090	Building Package - IFC	28	09-Apr-22	06-May-22	2 Building Package - IFC
Procure	nent	575	12-Apr-21 A	10-Nov-22	
Submittal	S	203	12-Apr-21 A	31-Oct-21	
A2020	Dryroom Equipment/Panels	28	12-Apr-21 A	21-May-21	
A1870	HVAC/Exhaust Equipment	28	04-Oct-21	31-Oct-21	
A1940	Chillers	28	04-Oct-21	31-Oct-21	
A1960	Pumps	28	04-Oct-21	31-Oct-21	
A2040	Boiler	28	04-Oct-21	31-Oct-21	Boiler
A2050	Network Equipment/BAS Controls/Access Controls	28	04-Oct-21	31-Oct-21	Network Equipment/BAS Controls/Access Controls
A2060	Electrical Switchgear	28	04-Oct-21	31-Oct-21	
A2070	Generator	28	04-Oct-21	31-Oct-21	
A2100	Elevators	28	04-Oct-21	31-Oct-21	
A2210	Tran sformers and Disconnects	28	04-Oct-21	31-Oct-21	Transformers and Disconnects
A2340	Uninterrupted Power Supply	28	04-Oct-21	31-Oct-21	Uninterrupted Power Supply
A2420	ТРО	28	04-Oct-21	31-Oct-21	
Delivery		372	01-Nov-21	10-Nov-22	
A00984	HVAC/Exhaust Equipment	73	01-Nov-21	12-Jan-22	2 HVAC/Exhaust Equipment
A01033	Chillers	73	01-Nov-21	12-Jan-22	
A01041	Pumps	74	01-Nov-21	13-Jan-22	2 Pumps
A01009	Boiler	73	01-Nov-21	12-Jan-22	
A00987	Network Equipment/BAS Controls/Access Controls	75	01-Nov-21	14-Jan-22	
A00989	Electrical Switchgear	240	01-Nov-21	29-Jun-22	
A00990	Generator	190	01-Nov-21	09-May-22	
A00991	Elevators	100	01-Nov-21	08-Feb-22	2 Elevators
	Transformers and Disconnects	150	01-Nov-21	30-Mar-22	
A1702	Uninterrupted Power Supply	190	01-Nov-21	09-May-22	
A1702 A2350			01-Nov-21	29-Jan-22	
	TPO	90	01-1100-21	LO GUIT LL	
A2350	TPO Dryroom Equipment/Panels	90 126	07-Jul-22	10-Nov-22	

Critical Remaining Work Page 1 of 2 Remaining Level of Effort Actual Work Actual Level of Effort Remaining Work

Milestone





Kinckery Arne Anme Ations/SOG - Lab Ations/SOG - Office/T&V Areas Ations/SOG - Office/T&V Areas Ations/SOG - HPIL An and Decking - Lab on and Decking - Office/T&V Areas in and Decking - HPIL Malls "HPIL & T&V 2 Suite" tial Exteriors Building Facades Terrace/Soffit Lab et Framing and Sheathing bof Top Equipment Office/T&V Areas HPIL out Framing/Rough-ins	Original Duration Original Duration 55 20 20 25 10 25 10 40 40 45 10 209 73 18 222 40 40 23 414 14 14 10	Start 01-Feb-22 01-Feb-22 08-Mar-22 20-Apr-22 08-Mar-22 08-Mar-22 08-Mar-22 09-May-22 09-May-22 09-May-22 09-May-22 09-May-22 03-May-22 03-Aug-22 03-Aug-22 03-Aug-22 03-Jun-22	Finish 05-May-22 07-Mar-22 19-Apr-22 05-May-22 11-Jul-22 16-May-22 11-Jul-22 24-May-22 17-May-23 15-Sep-22 07-Jun-22 23-Jun-22 15-Sep-22 18-Aug-22 23-Jun-22	Dravation, Quality, Integrity 2021 2023 May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Apr May Jun May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Foundations/SOG - Lab Foundations/SOG - Office/T&V Areas Foundations/SOG - HPIL Erection and Decking - Office/T&V Areas Erection and Decking - Office/T&V Areas Erection and Decking - Office/T&V Areas Erection and Decking - HPIL Erection and Decking - HPIL Erection and Decking - HPIL Erection and Decking - HPIL & T&V 2 Suite* Erection and Decking - HPIL & T&V 2 Erection and Decking - HPIL Erection and Decking
ations/SOG - Office/T&V Areas ations/SOG - HPIL an and Decking - Lab on and Decking - Office/T&V Areas on and Decking - HPIL e Walls "HPIL & T&V 2 Suite" tial Exteriors Building Facades Terrace/Soffit Lab et Framing and Sheathing bof Top Equipment Office/T&V Areas HPIL out Framing/Rough-ins	55 20 25 10 70 40 45 10 209 73 18 22 40 13 22 14 14 10	01-Feb-22 08-Mar-22 20-Apr-22 08-Mar-22 08-Mar-22 20-Apr-22 09-May-22 09-May-22 09-May-22 09-May-22 17-May-22 25-May-22 08-Aug-22 31-May-22 31-May-22 01-Jun-22	07-Mar-22 19-Apr-22 05-May-22 11-Jul-22 16-May-22 11-Jul-22 24-May-22 24-May-23 15-Sep-22 07-Jun-22 23-Jun-22 04-Aug-22 15-Sep-22 15-Sep-22 18-Aug-22	Foundations/SOG - Lab Foundations/SOG - Office/T&V Areas Foundations/SOG - HPIL Erection and Decking - Lab Erection and Decking - Office/T&V Areas Erection and Decking - Office/T&V Areas CMU Walls "HPIL & T&V 2 Suite!" Interstitial Exteriors
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an and Decking - Office/T&V Areas on and Decking - HPIL e Walls "HPIL & T&V 2 Suite" tial Exteriors Building Facades Terrace/Soffit Lab et Framing and Sheathing bof Top Equipment Office/T&V Areas HPIL Dut Framing/Rough-ins	45 10 209 73 18 22 40 23 45 14 10 10	20-Apr-22 09-May-22 09-May-22 09-May-22 09-May-22 17-May-22 25-May-22 08-Aug-22 31-May-22 31-May-22 01-Jun-22	11-Jul-22 24-May-22 17-May-23 15-Sep-22 07-Jun-22 23-Jun-22 04-Aug-22 15-Sep-22 18-Aug-22	Erection and Decking - Office/T&V Areas Erection and Decking - HPIL CMU Walls "HPIL & T&V 2 Suite" Interstitial Exteriors Install Building Facades
n and Decking - HPIL Pe Walls "HPIL & T&V 2 Suite" tial Exteriors Building Facades Terrace/Soffit Lab ter Framing and Sheathing poof Top Equipment Office/T&V Areas HPIL Put Framing/Rough-ins	10 209 73 18 22 40 23 45 14 14 10	09-May-22 09-May-22 09-May-22 17-May-22 25-May-22 08-Aug-22 31-May-22 31-May-22 01-Jun-22	24-May-22 17-May-23 15-Sep-22 07-Jun-22 23-Jun-22 04-Aug-22 15-Sep-22 18-Aug-22	Erection and Decking - HPIL CMU Walls "HPIL & T&V 2 Suite" Interstitial Exteriors Install Building Facades
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Walls "HPIL & T&V 2 Suite" tial Exteriors Building Facades Terrace/Soffit Lab et Framing and Sheathing bof Top Equipment Office/T&V Areas HPIL Dut Framing/Rough-ins	73 18 22 40 23 45 14 14 10	09-May-22 09-May-22 17-May-22 25-May-22 08-Aug-22 31-May-22 31-May-22 01-Jun-22	15-Sep-22 07-Jun-22 23-Jun-22 04-Aug-22 15-Sep-22 18-Aug-22	Interstitial Exteriors
Walls "HPIL & T&V 2 Suite" tial Exteriors Building Facades Terrace/Soffit Lab et Framing and Sheathing bof Top Equipment Office/T&V Areas HPIL Dut Framing/Rough-ins	18 22 40 23 45 14 14 10	09-May-22 17-May-22 25-May-22 08-Aug-22 31-May-22 31-May-22 01-Jun-22	07-Jun-22 23-Jun-22 04-Aug-22 15-Sep-22 18-Aug-22	Interstitial Exteriors
Walls "HPIL & T&V 2 Suite" tial Exteriors Building Facades Terrace/Soffit Lab et Framing and Sheathing bof Top Equipment Office/T&V Areas HPIL Dut Framing/Rough-ins	22 40 23 45 14 14 10	09-May-22 17-May-22 25-May-22 08-Aug-22 31-May-22 31-May-22 01-Jun-22	07-Jun-22 23-Jun-22 04-Aug-22 15-Sep-22 18-Aug-22	Interstitial Exteriors
tial Exteriors Building Facades Terrace/Soffit Lab et Framing and Sheathing bof Top Equipment Office/T&V Areas HPIL Dut Framing/Rough-ins	40 23 45 14 14 10	17-May-22 25-May-22 08-Aug-22 31-May-22 31-May-22 01-Jun-22	23-Jun-22 04-Aug-22 15-Sep-22 18-Aug-22	Interstitial Exteriors
Terrace/Soffit Lab et Framing and Sheathing oof Top Equipment Office/T&V Areas HPIL Dut Framing/Rough-ins	40 23 45 14 14 10	25-May-22 08-Aug-22 31-May-22 31-May-22 01-Jun-22	04-Aug-22 15-Sep-22 18-Aug-22	Install Building Facades
Terrace/Soffit Lab et Framing and Sheathing oof Top Equipment Office/T&V Areas HPIL Dut Framing/Rough-ins	23 45 14 14 10	08-Aug-22 31-May-22 31-May-22 01-Jun-22	15-Sep-22 18-Aug-22	
Lab et Framing and Sheathing pof Top Equipment Office/T&V Areas HPIL Dut Framing/Rough-ins	45 14 14 14 10	31-May-22 31-May-22 01-Jun-22	18-Aug-22	
et Framing and Sheathing oof Top Equipment Office/T&V Areas HPIL Dut Framing/Rough-ins	14 10	31-May-22 01-Jun-22		
oof Top Equipment Office/T&V Areas HPIL out Framing/Rough-ins	10	01-Jun-22		TPO - Lab
oof Top Equipment Office/T&V Areas HPIL out Framing/Rough-ins	10		27-Jun-22	Parapet Framing and Sheathing
Office/T&V Areas HPIL Dut Framing/Rough-ins		27-Jun-22	13-Jul-22	Set Roof Top Equipment
HPIL <mark>put</mark> Framing/Rough-ins		12-Jul-22	03-Aug-22	TPO - Office/T&V Areas
- Framing/Rough-ins	9	04-Aug-22	18-Aug-22	TPO-HPIL
- Framing/Rough-ins	195	01-Jun-22	17-May-23	
	9	01-Jun-22	15-Jun-22	🔲 [Lab] Framing/Rough-ins
Drywall/Finishes/Paint	19	27-Jun-22	28-Jul-22	[Lab] Drywall/Finishes/Paint
nstall UPS	35	01-Aug-22	29-Sep-22	[Lab] Install UP\$
Set Equipment in Electrical Room	18	01-Aug-22	30-Aug-22	[Lab] Set Equipment in Electrical Room
nstall East Lab BOH/Corridors	8	31-Aug-22	14-Sep-22	🔲 [Lab] Install East Lab BOH/Corridors
nstall Labs	45	15-Sep-22	05-Dec-22	[Lab] Install Labs
Set & Terminate Switch Boards	30	06-Dec-22	30-Jan-23	[Lab] Set & Terminate Sw
nstall Dryroom Equipment/Panels	15	28-Feb-23	23-Mar-23	[Lab] Install Dn
nstall MDF	18	27-Mar-23	25-Apr-23	[Lab] Ins
nstal Mech Equipment	16	27-Mar-23	20-Apr-23	[Lab] Inst
nstall Transformers	25	27-Mar-23	08-May-23	[Lab]
Final Inspections	6	09-May-23	17-May-23	🔳 [Lab
dout	103	12-Jul-22	12-Jan-23	
] Framing/Rough-ins	15	12-Jul-22	04-Aug-22	[Office] Framing/Rough-ins
] Drywall/Finishes/Paint	24	08-Aug-22	19-Sep-22	[Office] Drywall/Finishes/Paint
] MEP Ceiling and Wall Trimouts	18	20-Sep-22	19-Oct-22	[Office] MEP Ceiling and Wall Trimouts
] Install Elevators	45	20-Sep-22	07-Dec-22	[Office] Install Elevators
] Final Clean	3	08-Dec-22	13-Dec-22	[Office] Final Clean
] Harvey Punch / Completion	1	14-Dec-22	14-Dec-22	I [Office] Harvey Punch / Completion
] Install Office Restrooms	15	15-Dec-22	12-Jan-23	[Office] Install Office Restroo
	107	01-Jun-22	12-Dec-22	
ator Pad/Generator	14	01-Jun-22		Generator Pad/Generator
cape	17	10-Oct-22	07-Nov-22	Hardscape
Imishing				🗖 Site Furnishing
	163	20-Oct-22	10-Aug-23	
bilize Onsite Offices	10	20-Oct-22	07-Nov-22	Demobilize Onsite Offices
o and Commissioning Wet	30	03-May-23	27-Jun-23	
and Commissioning Electrical	30	18-May-23	13-Jul-23	
ocumentation	16	17-Jul-23	10-Aug-23	
nsi Fina Caller Fina Fina Fina Fina Fina Fina Fina Fina	stal Mech Equipment stal Transformers nal Inspections out Framing/Rough-ins Drywall/Finishes/Paint MEP Ceiling and Wall Trimouts Install Elevators Final Clean Harvey Punch / Completion Install Office Restrooms or Pad/Generator pe ipe inishing ize Onsite Offices and Commissioning Wet and Commissioning Electrical	stal Mech Equipment16stal Transformers25aal Inspections6out103raming/Rough-ins15Drywall/Finishes/Paint24MEP Ceiling and Wall Trimouts18nstall Elevators45Final Clean3-Harvey Punch / Completion1nstall Office Restrooms15or Pad/Generator14pe17ipe12nishing7ize Onsite Offices10and Commissioning Wet30and Commissioning Electrical30cumentation16	stal Mech Equipment 16 27-Mar-23 stall Transformers 25 27-Mar-23 nal Inspections 6 09-May-23 out 103 12-Jul-22 Framing/Rough-ins 15 12-Jul-22 Drywall/Finishes/Paint 24 08-Aug-22 MEP Ceiling and Wall Trimouts 18 20-Sep-22 Install Elevators 45 20-Sep-22 Final Clean 3 08-Dec-22 Harvey Punch / Completion 1 14-Dec-22 Install Office Restrooms 15 15-Dec-22 or Pad/Generator 14 01-Jun-22 pe 17 10-Oct-22 nishing 7 30-Nov-22 ize Onsite Offices 10 20-Oct-22 and Commissioning Wet 30 03-May-23 and Commissioning Electrical 30 18-May-23 cumentation 16 17-Jul-23	stal Mech Equipment 16 27-Mar-23 20-Apr-23 stall Transformers 25 27-Mar-23 08-May-23 nal Inspections 6 09-May-23 17-May-23 out 103 12-Jul-22 12-Jan-23 out 103 12-Jul-22 04-Aug-22 Traming/Rough-ins 15 12-Jul-22 04-Aug-22 Dywall/Finishes/Paint 24 08-Aug-22 19-Sep-22 MEP Celling and Wall Trimouts 18 20-Sep-22 07-Dec-22 nstal Elevators 45 20-Sep-22 07-Dec-22 Final Clean 3 08-Dec-22 13-Dec-22 Harvey Punch / Completion 1 14-Dec-22 14-Dec-22 Install Office Restrooms 15 15-Dec-22 12-Jun-22 or Pad/Generator 14 01-Jun-22 27-Jun-22 pe 17 10-Oct-22 07-Nov-22 pe 163 20-Oct-22 10-Aug-23 ize Onsite Offices 10 20-Oct-22 10-Aug-23 and Commissioning Wet 30 03-May-23 13-Jul-23 and C

Remaining Level of Effort	Actual Work	Critical Remaining Work	Page 2 of 2	
Actual Level of Effort	Remaining Work 🔶	♦ Milestone		







Appendix (F): June 2021 Schedule Update – Longest Path Schedule Before Occurrence of Delay Events

	Kirksey			PNNL	GS]		-	-	before Schedu		ling c	lelays	s)								ł		C	LE	Ξ/	y, Integ	Y	ļ			
Activity ID	Activity Name	Original Duration	Start	Finish		2021									_)22									-	-	2023				
					Jun	Jul	Aug Se	ep Oct	Nov	Dec	Jan Fe	eb Mar	r Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	p Oc
PNNL G	SL June Update (before adding delays)	669	21-May-21 A	10-Aug-23			-	:		: : :	-	:		: : :	: : :	: : :	: : :	: : :	: : :	:	:	: : :		: : :		:	5 5 5	1	: : :	: : :	
Key Date	es & Milestones	28	13-Jul-23	10-Aug-23				: : :		1	- - - - -	:		1	2 2 2	- - - - -	5 5 5	:	1	1 1 1	:	: : :		1	1	5 5 5	2 2 2 2	1	: : :	2 2 2	-
A1800	Beneficial Occupancy	0		13-Jul-23*				:		:	-	:	:	:	:	:	:	:	1 1 1	:	:	:	:	: : :			: : :	• E	Benefic	cial Oc	ccupan
A1810	Final Completion	0		10-Aug-23*						-	-			1	1	-	1		1			1		1		1	1		♦ F	inal C	Comple
Delay Fr	agnets	508	21-May-21 A	27-Feb-23			1			1	1		1	1	- - -	- - - -	: : :		1		-	: : :		1		1	1	1		1	
Dryroom	Equipment & Panels	508	21-May-21 A	27-Feb-23											· · · · · · · ·		·	 		· -				 							
A2450	Delay in Finish of Dryroom Equipment & Panels Submittal	421	21-May-21 A	06-Jul-22												De	elay in F	- Finish c	of Dryr	oom E	quipm	ent & F	anels	Submi	ittal					1	
A2460	Additional Duration for Dryroom Equipment & Panels Delivery	105	11-Nov-22	27-Feb-23												-	1	1	-					Add	litional	Duratio	on for	Dryrooi	m Equ	ıipmer	nt & P
Procure	nent	126	07-Jul-22	10-Nov-22										1		-	1							-			1				
Delivery		126	07-Jul-22	10-Nov-22			: : :	5 5 5		2 2 2	5 5 5	:	: : :	2 2 2 2	: : :	: : :	: : :	:	2 2 2 2	:	: : :	: : :	:	1 1 1 1	: : :	5 5 5	5 5 5	1	: : :	2 2 2	: : :
A01036	Dryroom Equipment/Panels	126	07-Jul-22	10-Nov-22		-							!		·			L		— D	ryroon	n Equip	oment/	Panels	S	- 4	·				
Building		46	28-Feb-23	17-May-23			: : :	:		: : :	: : :	:	:	1 1 1	: : :	: : :	: : :	:	1 1 1	:	: : :	: : :		1 1 1		: : :	: : :	1	: : :	: : :	
	ab Buildout	46	28-Feb-23	17-May-23			-			-	-			: : :	:	: : :	-		1 1 1	:	:			1 1 1		: : :	: : :	1		-	
A1500	[Lab] Final Inspections	6	09-May-23	17-May-23			-			-	-			1		-	1		1					1			[Lab]	Final In	spectio	ons	
A1530	[Lab] Instal Mech Equipment	16	27-Mar-23	20-Apr-23															-							[Lab]	Instal	Mech E	quipn	nent	
A2330	[Lab] Install Dryroom Equipment/Panels	15	28-Feb-23	23-Mar-23									!		·		· •						-1		[Lab] Install	Dryro	om Equ	lipmer	nt/Par	nels
A2400	[Lab] Install Transformers	25	27-Mar-23	08-May-23										1	: : :	: : :	1 1 1		: : :			: : :	- - -		-	📫 (L	ab] In	stall Tra	insform	ners	
Closeou	t	46	18-May-23	10-Aug-23			-	:		-	-	:		: : :	: : :	1 1 1	: : :	:	1 1 1	:	: : :	: : :		1 1 1		: : :	8	1	: : :	: : :	
A00714	Final Documentation	16	17-Jul-23	10-Aug-23			-			-	-			:	:	:	: : :	:	: : :	:	:	:	:	1		:	5 5 5		F	inal D	Docum
A2440	Startup and Commissioning Electrical	30	18-May-23	13-Jul-23			-	-				-		1	1	1	1		1		:			1				_ s	startup	ງ and (Cộmm







Appendix (G): June 2021 Schedule Update – Detailed Schedule After Occurrence of Delay Events

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PNNL GSL June Update (after adding delays) Detailed Schedule

	ARCHITECTURE				Detailed Schedule
tivity ID	Activity Name	Original Duration	Start	Finish	2021 2022 2023 20 <
	SL June Update (after adding delays)	1014	31-Mar-21 A	24-Jan-24	
		830	31-Mar-21 A		
	es & Milestones	030		24-Jan-24	
A1000	NOA Design	0	31-Mar-21 A		◆ NOA Design
A1830	Construction Start Package 1	0	11-Mar-22		◆ Construction Start Package 1
A1820	Construction Start Package 2	0	01-Jun-22		♦ Construction Start Package 2
A1800	Beneficial Occupancy	0		22-Dec-23*	
A1810	Final Completion	0		24-Jan-24*	
Delay Fr	agnets	892	21-May-21 A	22-Dec-23	3
Dryroom I	Equipment & Panels	508	21-May-21 A	27-Feb-23	3
A2450	Delay in Finish of Dryroom Equipment & Panels Submittal	421	21-May-21 A	06-Jul-22	2 Delay in Finish of Dryroom Equipment & Panels Submittal
A2460	Additional Duration for Dryroom Equipment & Panels Delivery	105	11-Nov-22	27-Feb-23	3 Additional Duration for Dryroom Equipment & Pane
Lab Layou	ut	175	17-Sep-21	10-Mar-22	2
A2470	Delay in Furnish of Lab Layout & Equipment Sheet	175	17-Sep-21	10-Mar-22	2 Delay in Furnish of Lab Layout & Equipment Sheet
Switchge	ar Delivery	892	01-Jul-21	22-Dec-23	
A2490	Delay in Release of Switchgear for Delivery	347	01-Jul-21	12-Jun-22	
A2480	Additional Duration for Switchgear Delivery	121	15-Feb-23	16-Jun-23	
A2510	Additional Duration for Commissioning	65	17-Oct-23	22-Dec-23	
		489	31-Mar-21 A		
Design F					
A1010	SSU SDs	55		24-May-21 A	
A1020	SSU DDs	42	25-May-21 A		
A1040	Building Package - SDs	16	06-Jul-21	21-Jul-21	
A2290	Finalize Lab Layout & Equipment Sheet and Issue for Layout Approval	57	22-Jul-21	16-Sep-21	
A2410	Building Pricing Set	6	28-Sep-21	03-Oct-21	1 Building Pricing Set
A1050	Building Package - DDs	91	22-Jul-21	20-Oct-21	1 Building Package - DDs
A1030	SSU IFC	189	06-Jul-21	10-Jan-22	2 SSU IFC
A2300	Building Package - 95% CD	170	21-Oct-21	08-Apr-22	
A1090	Building Package - IFC	28	09-Apr-22	06-May-22	2 Building Package - IFC
A1130	MEP BIM Coordination	305	31-Mar-21 A	06-May-22	MEP BIM Coordination
Procurer	nent	667	12-Apr-21 A	14-Feb-23	3
Submittal		361	12-Apr-21 A	07-Apr-22	
A2020	Dryroom Equipment/Panels	28		21-May-21	
A2020	HVAC/Exhaust Equipment		04-Oct-21	31-Oct-21	
		28			
A1940	Chillers	28	04-Oct-21	31-Oct-21	
A1960	Pumps	28	04-Oct-21	31-Oct-21	
A2040	Boiler	28	04-Oct-21	31-Oct-21	
A2050	Network Equipment/BAS Controls/Access Controls	28	04-Oct-21	31-Oct-21	Network Equipment/BAS Controls/Access Controls
A2050 A2070	Network Equipment/BAS Controls/Access Controls Generator	28 28	04-Oct-21 04-Oct-21	31-Oct-21 31-Oct-21	1 Image: Network Equipment/BAS Controls/Access Controls 1 Image: Generator
A2050	Network Equipment/BAS Controls/Access Controls Generator Elevators Elevators	28	04-Oct-21	31-Oct-21 31-Oct-21 31-Oct-21	1 Image: Second controls
A2050 A2070	Network Equipment/BAS Controls/Access Controls Generator	28 28	04-Oct-21 04-Oct-21	31-Oct-21 31-Oct-21	1 Image: Network Equipment/BAS Controls/Access Controls 1 Image: Generator 1 Image: Elevators 1 Image: Transformers and Discon nects
A2050 A2070 A2100	Network Equipment/BAS Controls/Access Controls Generator Elevators Elevators	28 28 28	04-Oct-21 04-Oct-21 04-Oct-21	31-Oct-21 31-Oct-21 31-Oct-21	1 Image: Network Equipment/BAS Controls/Access Controls 1 Image: Generator 1 Image: Elevators 1 Image: Transformers and Disconnects
A2050 A2070 A2100 A2210	Network Equipment/BAS Controls/Access Controls Generator Generator Elevators Transformers and Disconnects Transformers and Disconnects	28 28 28 28 28	04-Oct-21 04-Oct-21 04-Oct-21 04-Oct-21	31-Oct-21 31-Oct-21 31-Oct-21 31-Oct-21	1 Image: Network Equipment/BAS Controls/Access Controls 1 Image: Generator 1 Image: Elevators 1 Image: Transformers and Disconnects 1 Image: Uninterrupted Power Supply
A2050 A2070 A2100 A2210 A2340	Network Equipment/BAS Controls/Access Controls Generator Elevators Tran sformers and Discon nects Uninterrupted Power Supply	28 28 28 28 28 28 28	04-Oct-21 04-Oct-21 04-Oct-21 04-Oct-21 04-Oct-21	31-Oct-21 31-Oct-21 31-Oct-21 31-Oct-21 31-Oct-21	1 Image: Network Equipment/BAS Controls/Access Controls 1 Image: Generator 1 Image: Elevators 1 Image: Transformers and Disconneicts 1 Image: Uninterrupted Power Supply 1 Image: TPO
A2050 A2070 A2100 A2210 A2340 A2420	Network Equipment/BAS Controls/Access Controls Generator Elevators Tran sformers and Discon nects Uninterrupted Power Supply TPO	28 28 28 28 28 28 28 28	04-Oct-21 04-Oct-21 04-Oct-21 04-Oct-21 04-Oct-21 04-Oct-21	31-Oct-21 31-Oct-21 31-Oct-21 31-Oct-21 31-Oct-21 31-Oct-21	1 Network Equipment/BAS Controls/Access Controls 1 Generator 1 Elevators 1 Transformers and Disconnects 1 Uninterrupted Power Supply 1 TPO 2 Electrical Switchgear
A2050 A2070 A2100 A2210 A2340 A2420 A2060	Network Equipment/BAS Controls/Access Controls Generator Elevators Tran sformers and Discon nects Uninterrupted Power Supply TPO	28 28 28 28 28 28 28 28 28 28	04-Oct-21 04-Oct-21 04-Oct-21 04-Oct-21 04-Oct-21 04-Oct-21 11-Mar-22	31-Oct-21 31-Oct-21 31-Oct-21 31-Oct-21 31-Oct-21 31-Oct-21 07-Apr-22	1 Image: Network Equipment/BAS Controls/Access Controls 1 Image: Generator 1 Image: Elevators 2 Image: Elevators 3 Image: Elevators
A2050 A2070 A2100 A2210 A2340 A2420 A2060 Delivery	Network Equipment/BAS Controls/Access Controls Generator Elevators Transformers and Disconnects Uninterrupted Power Supply TPO Electrical Switchgear	28 28 28 28 28 28 28 28 28 28 28 28 464	04-Oct-21 04-Oct-21 04-Oct-21 04-Oct-21 04-Oct-21 04-Oct-21 11-Mar-22 01-Nov-21	31-Oct-21 31-Oct-21 31-Oct-21 31-Oct-21 31-Oct-21 31-Oct-21 07-Apr-22 14-Feb-23	1 Network Equipment/BAS Controls/Access Controls 1 Generator 1 Elevators 1 Transformers and Disconnects 1 Uninterrupted Power Supply 1 TPO 2 Electrical Switchgear 3 HVAC/Exhaust Equipment
A2050 A2070 A2100 A2210 A2340 A2420 A2060 Delivery A00984	Network Equipment/BAS Controls/Access Controls Generator Elevators Transformers and Disconnects Uninterrupted Power Supply TPO Electrical Switchgear HVAC/Exhaust Equipment	28 28 28 28 28 28 28 28 28 28 28 464 73	04-Oct-21 04-Oct-21 04-Oct-21 04-Oct-21 04-Oct-21 04-Oct-21 11-Mar-22 01-Nov-21	31-Oct-21 31-Oct-21 31-Oct-21 31-Oct-21 31-Oct-21 31-Oct-21 07-Apr-22 14-Feb-23 12-Jan-22	1 Network Equipment/BAS Controls/Access Controls 1 Generator 1 Elevators 1 Transformers and Disconnects 1 Uninterrupted Power Supply 1 TPO 2 Electrical Switchgear 3 HVAC/Exhaust Equipment 2 Chillers
A2050 A2070 A2100 A2210 A2340 A2420 A2060 Delivery A00984 A01033 A01009	Network Equipment/BAS Controls/Access Controls Generator Elevators Transformers and Disconnects Uninterrupted Power Supply TPO Electrical Switchgear HVAC/Exhaust Equipment Chillers Boiler	28 28 28 28 28 28 28 28 28 28 28 464 73 73	04-Oct-21 04-Oct-21 04-Oct-21 04-Oct-21 04-Oct-21 04-Oct-21 11-Mar-22 01-Nov-21 01-Nov-21 01-Nov-21	31-Oct-21 31-Oct-21 31-Oct-21 31-Oct-21 31-Oct-21 31-Oct-21 07-Apr-22 14-Feb-23 12-Jan-22 12-Jan-22 12-Jan-22	1 Network Equipment/BAS Controls/Access Controls 1 Generator 1 Elevators 1 Transformers and Disconnects 1 Uninterrupted Power Supply 1 TPO 2 HVAC/Exhaust Equipment 2 Chillers 2 Boiler
A2050 A2070 A2100 A2210 A2340 A2420 A2060 Delivery A00984 A01033 A01009 A01041	Network Equipment/BAS Controls/Access Controls Generator Elevators Tran sformers and Disconnects Uninterrupted Power Supply TPO Electrical Switchgear HVAC/Exhaust Equipment Chillers Boiler Pumps	28 28 28 28 28 28 28 28 28 73 73 73 73 73 73 73	04-Oct-21 04-Oct-21 04-Oct-21 04-Oct-21 04-Oct-21 04-Oct-21 11-Mar-22 01-Nov-21 01-Nov-21 01-Nov-21 01-Nov-21	31-Oct-21 31-Oct-21 31-Oct-21 31-Oct-21 31-Oct-21 31-Oct-21 07-Apr-22 14-Feb-23 12-Jan-22 12-Jan-22 13-Jan-22	1 Network Equipment/BAS Controls/Access Controls 1 Generator 1 Elevators 1 Transformers and Disconnects 1 Uninterrupted Power Supply 1 TPO 2 Flectrical Switchgear 3 HVAC/Exhaust Equipment 2 Chillers 2 Pumps
A2050 A2070 A2100 A2210 A2340 A2420 A2060 Delivery A00984 A01033 A01009 A01041 A00987	Network Equipment/BAS Controls/Access Controls Generator Elevators Transformers and Disconnects Uninterrupted Power Supply TPO Electrical Switchgear HVAC/Exhaust Equipment Chillers Boiler Pumps Network Equipment/BAS Controls/Access Controls	28 28 28 28 28 28 28 28 464 73 73 73 74 75	04-Oct-21 04-Oct-21 04-Oct-21 04-Oct-21 04-Oct-21 04-Oct-21 11-Mar-22 01-Nov-21 01-Nov-21 01-Nov-21 01-Nov-21 01-Nov-21 01-Nov-21	31-Oct-21 31-Oct-21 31-Oct-21 31-Oct-21 31-Oct-21 31-Oct-21 07-Apr-22 14-Feb-23 12-Jan-22 12-Jan-22 12-Jan-22 13-Jan-22 14-Jan-22	1 Image: Control Sector of Sec
A2050 A2070 A2100 A2210 A2340 A2420 A2060 Delivery A00984 A01033 A01009 A01041 A00987 A2430	Network Equipment/BAS Controls/Access Controls Generator Elevators Transformers and Disconnects Uninterrupted Power Supply TPO Electrical Switchgear HVAC/Exhaust Equipment Chillers Boiler Pumps Network Equipment/BAS Controls/Access Controls TPO	28 28 28 28 28 28 28 28 28 73 73 73 74 75 90	04-Oct-21 04-Oct-21 04-Oct-21 04-Oct-21 04-Oct-21 04-Oct-21 11-Mar-22 01-Nov-21 01-Nov-21 01-Nov-21 01-Nov-21 01-Nov-21 01-Nov-21 01-Nov-21	31-Oct-21 31-Oct-21 31-Oct-21 31-Oct-21 31-Oct-21 31-Oct-21 07-Apr-22 14-Feb-23 12-Jan-22 12-Jan-22 12-Jan-22 13-Jan-22 13-Jan-22 29-Jan-22	1 Network Equipment/BAS Controls/Access Controls 1 Generator 1 Elévators 1 Transformers and Disconnects 1 Uninterrupted Power Supply 1 TPO 2 Flectrical Switchgear 3 HVAC/Exhaust Equipment 2 Chillers 2 Boiler 2 Pumps 2 Network Equipment/BAS: Controls/Access Controls
A2050 A2070 A2100 A2210 A2340 A2420 A2420 Delivery A00984 A01033 A01009 A01041 A00987	Network Equipment/BAS Controls/Access Controls Generator Elevators Transformers and Disconnects Uninterrupted Power Supply TPO Electrical Switchgear HVAC/Exhaust Equipment Chillers Boiler Pumps Network Equipment/BAS Controls/Access Controls	28 28 28 28 28 28 28 28 464 73 73 73 74 75	04-Oct-21 04-Oct-21 04-Oct-21 04-Oct-21 04-Oct-21 04-Oct-21 11-Mar-22 01-Nov-21 01-Nov-21 01-Nov-21 01-Nov-21 01-Nov-21 01-Nov-21	31-Oct-21 31-Oct-21 31-Oct-21 31-Oct-21 31-Oct-21 31-Oct-21 07-Apr-22 14-Feb-23 12-Jan-22 12-Jan-22 12-Jan-22 13-Jan-22 14-Jan-22	1 1





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PNNL GSL June Update (after adding delays) Detailed Schedule

ity ID						
.,	Activity Name	Original Duration	Start	Finish	2021	2022 2023 2 F Mar Apr M Jun Jul Aug S Oct N Dec Jan F Mar Apr M Jun Jul Aug S Oct N D Jan Jan
A00990	Generator	190	01-Nov-21	09-May-22	lai Api ivi juli juli Aug 3 Oct ivi Dec jain	Generator
A2350	Uninterrupted Power Supply	190	01-Nov-21	09-May-22		Uninterrupted Power Supply
A01036	Dryroom Equipment/Panels	126	07-Jul-22	10-Nov-22		Dryroom Equipment/Panels
A00989	Electrical Switchgear	240	13-Jun-22	14-Feb-23		Electrical Switchgear
		90	14-Mar-22	18-Aug-22		
SSU						
Foundatio		55	14-Mar-22	15-Jun-22		
A1670	Foundations/SOG - Lab	20	14-Mar-22	14-Apr-22		Foundations/SOG - Lab
A1700	Foundations/SOG - Office/T&V Areas	25	18-Apr-22	30-May-22		Foundations/SOG - Office/T&V Areas
A1690	Foundations/SOG - HPIL	10	31-May-22	15-Jun-22		Foundations/SOG - HPIL
Steel Stru		70	18-Apr-22	18-Aug-22		
A1730	Erection and Decking - Lab	40	18-Apr-22	27-Jun-22		Erection and Decking - Lab
A1790	Erection and Decking - HPIL	10	16-Jun-22	06-Jul-22		Erection and Decking - HPIL
A1750	Erection and Decking - Office/T&V Areas	45	31-May-22	18-Aug-22		Erection and Decking - Office/T&V Areas
Building		247	01-Jun-22	22-Aug-23		
Building E		73	16-Jun-22	26-Oct-22	······································	
A1780	CMU Walls "HPIL & T&V 2 Suite"	18	16-Jun-22	20-Jul-22		CMU Walls "HPIL & T&V 2 Suite"
A1630	Interstitial Exteriors	22	28-Jun-22	04-Aug-22		Interstitial Exteriors
A1640	Install Building Facades	40	07-Jul-22	15-Sep-22		Install Building Facades
A1650	Install Terrace/Soffit	23	19-Sep-22	26-Oct-22		Install Terrace/Soffit
Roof		53	28-Jun-22	29-Sep-22		
A00140	Parapet Framing and Sheathing	14	28-Jun-22	21-Jul-22		Parapet Framing and Sheathing
A00142	TPO - Lab	14	13-Jul-22	04-Aug-22		TRO - Lab
A1540	Set Roof Top Equipment	10	08-Aug-22	23-Aug-22		Set Roof Top Equipment
A00145	TPO - Office/T&V Areas	10	22-Aug-22	14-Sep-22		TPO - Office/T&V Areas
A00143	TPO - HPIL	Q	15-Sep-22	29-Sep-22		TPO - Unide/ Tav Aleas
	bBuildout	233	28-Jun-22	22-Aug-23		
A2370	[Lab] Framing/Rough-ins	9	28-Jun-22	13-Jul-22		[Lab] Framing/Rough-ins
A2380	[Lab] Drywall/Finishes/Paint	19	08-Aug-22	08-Sep-22		Leab] henning/reaginine
A2390	[Lab] Set Equipment in Electrical Room	18	12-Sep-22	11-Oct-22		[Lab] Set Equipment in Electrical Room
A2590	[Lab] Install East Lab BOH/Corridors	0	12-Oct-22	25-Oct-22		[Lab] Install East Lab BOH/Corridors
A1490	[Lab] Install UPS	35	12-Ou-22 12-Sep-22	09-Nov-22		
	[Lab] Install Labs					
A1600		45	26-Oct-22	17-Jan-23		[Lab] Install Labs
A2330	[Lab] Install Dryroom Equipment/Panels	15	28-Feb-23	23-Mar-23		[Lab] Install Dryroom Equipment/Panels
A1530	[Lab] Install Mech Equipment	16	27-Mar-23	20-Apr-23		[Lab] Install Mech Equipment
A1520	[Lab] Install MDF	18	27-Mar-23	25-Apr-23		[Lab] Install MDF
A2400	[Lab] Install Transformers	25	27-Mar-23	08-May-23		[Lab] Install Transformers
A1470	[Lab] Set & Terminate Switch Boards	30	20-Jun-23	10-Aug-23		[Lab] Set & Terminate S
A1500	[Lab] Final Inspections	6	14-Aug-23	22-Aug-23		[Lab] Final Inspections
	erior Buildout	103	22-Aug-22	22-Feb-23		
A1230	[Office] Framing/Rough-ins	15	22-Aug-22	15-Sep-22		[Office] Framing/Rough-ins
A1240	[Office] Drywall/Finishes/Paint	24	19-Sep-22	27-Oct-22		[Office] Drywall/Finishes/Paint
A1280	[Office] MEP Ceiling and Wall Trimouts	18	31-Oct-22	30-Nov-22		[Office] MEP Ceiling and Wall Trimouts
A1360	[Office] Install Elevators	45	31-Oct-22	19-Jan-23		[Office] Install Elevators
A1320	[Office] Final Clean	3	23-Jan-23	25-Jan-23		I [Office] Final Clean
A1330	[Office] Harvey Punch / Completion	1	26-Jan-23	26-Jan-23		I [Office] Harvey Punch / Completion
A1370	[Office] Install Office Restrooms	15	30-Jan-23	22-Feb-23		[Office] Install Office Restrooms
Sitescape		130	01-Jun-22	24-Jan-23		
A1400	Generator Pad/Generator	14	01-Jun-22	27-Jun-22		Generator Pad/Generator
A2310	Hardscape	17	17-Nov-22	19-Dec-22		Hardscape
A2320	Landscape	12	20-Dec-22	11-Jan-23		Landscape
	Site Furnishing	7	12-Jan-23	24-Jan-23		Site Furnishing

Remaining Level of Effort Actual Work	Critical Remaining Work	Page 2 of 3	
Actual Level of Effort Remaining Work	♦ Milestone		





PNNL GSL June Update (after adding delays) Detailed Schedule

	ANGHITEGTONE																					1 n n 0	vation,	Quali	ty, inte	egrity				
Activity ID	Activity Name	Original	Start	Finish			202	21								202	2								2023				2	024
		Duration			Mar A	pr M	Jun	Jul Au	g S	Oct	N De	c Jan	FΝ	ar Apı	M	Jun	Jul Au	g S	Oct	N De	c Jan	F M	ar Apr	M	Jun Ju	ul Aug	j s c	Oct N	D Ja	n Feb
Closeout		230	01-Dec-22	24-Jan-24		-			-		-			-					-				-		-					
A1430	Demobilize Onsite Offices	10	01-Dec-22	19-Dec-22		:		:	2 2 2		: : :			:		:	: : :		1		Dem	obilize (Onsite (Offices	:	: : :		1		: : :
A1440	Startup and Commissioning Wet	30	03-May-23	27-Jun-23		:		:			: : :			-		:	:		-	:		-	1		s 🗖	startup a	and Co	mmissio	oning We	t
A2440	Startup and Commissioning Electrical	30	23-Aug-23	16-Oct-23																								Start	tup and C	omm
A00714	Final Documentation	16	27-Dec-23	24-Jan-24		-		-	1 1 1		-			-		-	1		1	: : :					:			1 1 1 1		l Fin





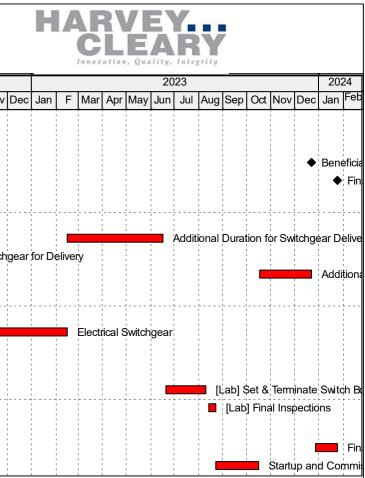


Appendix (H): June 2021 Schedule Update – Longest Path Schedule After Occurrence of Delay Events

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PNNL GSL June Update (after adding delays) Longest Path Schedule

Activity ID	Activity Name	Original	Start	Finish	20	21													20	22					
		Duration			Jun	Jul	Aug	Sep	0	ct N	lov [Dec	Jan	F	Ma	r Ap	pr N	/lay	Jun	Jul	Aug	Se	p O	oct No	ז אכ
PNNL G	SSL June Update (after adding delays)	922	01-Jul-21	24-Jan-24								1													
Key Da	tes & Milestones	30	22-Dec-23	24-Jan-24							-	5 5 5 5 5		: : :		-						: : :		2 2 2 2	
A1800	Beneficial Occupancy	0		22-Dec-23*				: : :	:			:		:	:	:	-				:		:	: : :	:
A1810	Final Completion	0		24-Jan-24*				-								-	-							1	
Delay F	Fragnets	892	01-Jul-21	22-Dec-23				-				-													
Switchg	Jear Delivery	892	01-Jul-21	22-Dec-23											;							;			
A2480	Additional Duration for Switchgear Delivery	121	15-Feb-23	16-Jun-23	1																				
A2490	Delay in Release of Switchgear for Delivery	347	01-Jul-21	12-Jun-22					-	-	-	_			-	-	-			Delay	in R	elea	se of	of Swit	chg
A2510	Additional Duration for Commissioning	65	17-Oct-23	22-Dec-23				-	-					-		-						-			ł
Procure	ement	240	13-Jun-22	14-Feb-23																					-
Delivery		240	13-Jun-22	14-Feb-23					:													:	-		
A00989	Electrical Switchgear	240	13-Jun-22	14-Feb-23	1			: : :	:			:		:	:	:	:				:		-	-	:
Buildin	Ig	36	20-Jun-23	22-Aug-23				: : :							:	-						1			
Interior I	Lab Buildout	36	20-Jun-23	22-Aug-23					-													-		-	
A1470	[Lab] Set & Terminate Switch Boards	30	20-Jun-23	10-Aug-23	1																				
A1500	[Lab] Final Inspections	6	14-Aug-23	22-Aug-23																					
Closeo	ut	84	23-Aug-23	24-Jan-24				•				1		:	:						:			:	
A00714	Final Documentation	16	27-Dec-23	24-Jan-24	1			1 1 1			-	: : :		:	: : :		-				: : :			1	
A2440	Startup and Commissioning Electrical	30	23-Aug-23	16-Oct-23	7			:	:	:	:	:		:	:	:	:				:	:	:	1 1 1	:









Appendix (I): March 2022 Schedule Update – Detailed Schedule Before Occurrence of Delay Events

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PNNL GSL March Update (before adding delays) Detailed Schedule

	ARCHITECTURE				Detailed Schedule	Innovation, Quality, Integrity
ctivity ID	Activity Name	Original	Start	Finish	2021	2022 2023 2024
		Duration			Mar Apr M Jun Jul Aug S Oct N Dec Jan F Mar Apr	M Jun Jul Aug S Oct N Dec Jan F Mar Apr M Jun Jul Aug S Oct N D Jan ^{Fe}
PNNL G	SL March Update (before adding delays)	1014	31-Mar-21 A	24-Jan-24		
Key Date	es & Milestones	830	31-Mar-21 A	24-Jan-24		
A1000	NOA Design	0	31-Mar-21 A		◆ NOA Design	
A1830	Construction Start Package 1	0	11-Mar-22 A		◆ Constr	ruction Start Package 1
A1820	Construction Start Package 2	0	27-May-22			Construction Start Package 2
A1800	Beneficial Occupancy	0		22-Dec-23*		♦ Benefic
A1810	Final Completion	0		24-Jan-24*] : : : : : : : : : : : : : : : :	
Delay Fr	aqnets	814	21-May-21 A	22-Dec-23		
	Equipment & Panels	508	21-May-21 A	27-Feb-23		
A2450	Delay in Finish of Dryroom Equipment & Panels Submittal	421	21-May-21 A			Delay in Finish of Dryroom Equipment & Panels Submittal
A2460	Additional Duration for Dryroom Equipment & Panels Delivery	105	11-Nov-22	27-Feb-23		Additional Duration for Dryroom Equipment & Panels De
Lab Layo		175		10-Mar-22 A		
A2470	Delay in Finish of Lab Layout & Equipment Sheet	175	· · · · · · · · · · · · · · · · · · ·	10-Mar-22 A	Delav	in Finish of Lab Layout & Equipment Sheet
	ar Delivery	618	01-Jul-21 A	22-Dec-23		
A2490	Delay in Release of Switchgear for Delivery	347	01-Jul-21 A	12-Jun-22		Delay in Release of Switchgear for Delivery
A2480	Additional Duration for Switchgear Delivery	121	15-Feb-23	16-Jun-23		Additional Duration for Switchgear Deliv
A2510	Additional Duration for Commissioning	65	17-Oct-23	22-Dec-23		Addition
_		489		01-May-22		
Design I						
A1010	SSU SDs	55		24-May-21		
A1020	SSU DDs	42	-	06-Jul-21 A	SSU DDs	
A2290	Finalize Lab Layout & Equipment Sheet and Issue for Layout Approval	57		16-Sep-21		heet and Issue for Layout Approval
A2410	Building Pricing Set	6		03-Oct-21 A	Building Pricing Set	
A1050	Building Package - DDs	91		20-Oct-21 A	Building Package - DDs	
A1030	SSU IFC	189		10-Jan-22 A	SSU IFC	
A1040	Building Package - SDs	16		17-Feb-22 A	······································	Package - SDs
A2300	Building Package - 95% CD	170	21-Oct-21 A	· ·	Bu	ilding Package - 95% CD
A1090	Building Package - IFC	28	04-Apr-22	01-May-22		Building Package - IFC
A1130	MEP BIM Coordination	305		01-May-22		MEP BIM Coordination
Procure	ment	667	12-Apr-21 A	14-Feb-23		
Submittal	s	382	12-Apr-21 A	28-Apr-22		
A2020	Dryroom Equipment/Panels	28	12-Apr-21 A	21-May-21	Dryroom Equipment/Panels	
A2070	Generator	28	21-Feb-22 A	02-Apr-22	Ge	enerator
A1870	HVAC/Exhaust Equipment	28	01-Apr-22	28-Apr-22]	HVAC/Exhaust Equipment
A1940	Chillers	28	01-Apr-22	28-Apr-22	1	Chillers
A1960	Pumps	28	01-Apr-22	28-Apr-22] : : : : : : : : : : : : [Pumps
A2040	Boiler	28	01-Apr-22	28-Apr-22		Boiler
A2050	Network Equipment/BAS Controls/Access Controls	28	01-Apr-22	28-Apr-22	1	Network Equipment/BAS Controls/Access Controls
A2060	Electrical Switchgear	28	01-Apr-22	28-Apr-22	1	Electrical Switchgear
A2100	Elevators	28	01-Apr-22	28-Apr-22	1 : : : : : : : : : : : : :	Elevators
A2210	Transformers and Disconnects	28	01-Apr-22	28-Apr-22	1	Transformers and Disconnects
A2340	Uninterrupted Power Supply	28	01-Apr-22	28-Apr-22		Uninterrupted Power Supply
A2420	TPO	28	01-Apr-22	28-Apr-22	1	L TPO
Delivery		311	03-Apr-22	14-Feb-23		
A00984	HVAC/Exhaust Equipment	73	29-Apr-22	12-Jul-22		HVAC/Exhaust Equipment
A01033	Chillers	73	29-Apr-22	12-Jul-22	1	Chillers
A01009	Boiler	73	29-Apr-22	12-Jul-22		Boiler
A01041	Pumps	74	29-Apr-22	13-Jul-22	1	Pumps
A00987	Network Equipment/BAS Controls/Access Controls	75	29-Apr-22	14-Jul-22		Network Equipment/BAS Controls/Access Controls
A2430	ТРО	90	29-Apr-22	29-Jul-22	1	TPO
A00991	Elevators	100	29-Apr-22	08-Aug-22		Elevators
A1702	Transformers and Disconnects	150	29-Apr-22	28-Sep-22		Transformers and Disconnects
			··· · · · · · · · · · · · · · · · · ·			
	naining Level of Effort Actual Work Critical Remaining Work Ial Level of Effort Remaining Work Milestone	Vork			Page 1 of 3	HSSE CPM SCHEDULING CONSULTAINTS





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PNNL GSL March Update (before adding delays) Detailed Schedule

	ARCHITECTORE				
ctivity ID	Activity Name	Original Duration	Start	Finish	2021 2022 Mar Apr M Jul Aug S Oct N Dec Jan F Mar Apr M Jul Aug S Oct N
A00990	Generator	190	03-Apr-22	12-Oct-22	Gene
A2350	Uninterrupted Power Supply	190	29-Apr-22	07-Nov-22	
A01036	Dryroom Equipment/Panels	126	07-Jul-22	10-Nov-22	
A00989	Electrical Switchgear	240	13-Jun-22	14-Feb-23	
SSU		81	14-Mar-22 A	03-Aug-22	
Foundatio	une l	59	14-Mar-22 A	31-May-22	
A1670	Foundations/SOG - Lab	20	14-Mar-22 A		Foundations/SOG - Lab
A1700	Foundations/SOG - Cab	25	14-Mar-22 A		Foundations/SOG - Office/T&V
A1690	Foundations/SOG - HPIL	10	16-May-22	31-May-22	Foundations/SOG - HPIL
Steel Stru		51	04-May-22	03-Aug-22	
A1790	Erection and Decking - HPIL	10	01-Jun-22	16-Jun-22	Erection and Decking - H
A1730	Erection and Decking - Lab	40	04-May-22	14-Jul-22	Erection and Deckin
A1750	Erection and Decking - Office/T&V Areas	45	16-May-22	03-Aug-22	Erection and Dec
Building		239	15-Jun-22	22-Aug-23	
				14-Nov-22	
Building E	CMU Walls "HP IL & T&V 2 Suite"	84	15-Jun-22 15-Jun-22	14-Nov-22 19-Jul-22	
		18			
A1630	Interstitial Exteriors	22	18-Jul-22	23-Aug-22	
A1640	Install Building Facades	40	26-Jul-22	04-Oct-22	
A1650	Install Terrace/Soffit	23	05-Oct-22	14-Nov-22	
Roof	Parapet Framing and Sheathing	45	18-Jul-22 18-Jul-22	04-Oct-22	Parapet Framing
A00140 A00142		14		09-Aug-22	
	TPO - Lab	14	01-Aug-22	23-Aug-22	TPO-Lab
A1540	Set Roof Top Equipment	10	24-Aug-22	12-Sep-22	
A00145	TPO - Office/T&V Areas TPO - HPIL	9	24-Aug-22 20-Sep-22	19-Sep-22 04-Oct-22	TPO-Off
A00144		223	20-Sep-22 18-Jul-22	22-Aug-23	
A2370	b Buildout [Lab] Framing/Rough-ins	9	18-Jul-22	01-Aug-22	📕 [Lab] Framing/Ro
A2370 A2380	[Lab] Drywall/Finishes/Paint	19	24-Aug-22	27-Sep-22	Labj riannig/to
A2300 A2390	[Lab] Set Equipment in Electrical Room	19	24-Aug-22 28-Sep-22	27-Sep-22 27-Oct-22	
A2590	[Lab] Install East Lab BOH/Corridors	8	31-Oct-22	10-Nov-22	
A1310	[Lab] Install UPS	35	08-Nov-22	11-Jan-23	
A1600	[Lab] Install Labs	45	14-Nov-22	02-Feb-23	
A1000	[Lab] Install Dryroom Equipment/Panels	15	28-Feb-23	23-Mar-23	
A1530	[Lab] Install Mech Equipment	16	27-Mar-23	20-Mar-23	
A1520	[Lab] Install MDF	18	27-Mar-23	25-Apr-23	
A2400	[Lab] Install Transformers	25	27-Mar-23	08-May-23	
A1470	[Lab] Set & Terminate Switch Boards	30	20-Jun-23	10-Aug-23	
A1500	[Lab] Final Inspections	6	14-Aug-23	22-Aug-23	
	rior Buildout	103	04-Aug-22	07-Feb-23	
A1230	[Office] Framing/Rough-ins	15	04-Aug-22	30-Aug-22	[Office] Fram
A1240	[Office] Drywall/Finishes/Paint	24	31-Aug-22	12-Oct-22	
A1280	[Office] MEP Ceiling and Wall Trimouts	18	13-Oct-22	14-Nov-22	
A1360	[Office] Install Elevators	45	13-Oct-22	04-Jan-23	
A1320	[Office] Final Clean	3	05-Jan-23	10-Jan-23	1
A1330	[Office] Harvey Punch / Completion	1	11-Jan-23	11-Jan-23	
A1370	[Office] Install Office Restrooms	15	12-Jan-23	07-Feb-23	
Sitescape		66	13-Oct-22	09-Feb-23	
	Generator Pad/Generator	14	13-Oct-22	07-Nov-22	
A1400				0	
A1400 A2310		17	07-Dec-22	09-Jan-23	
A1400 A2310 A2320	Hardscape	17 12	07-Dec-22 10-Jan-23	09-Jan-23 30-Jan-23	

Remaining Level of Effort	Actual Work	Critical Remaining Work	Page 2 of 3	
Actual Level of Effort	Remaining Work	♦ Milestone		



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HSSE COMBULTANTS



PNNL GSL March Update (before adding delays) Detailed Schedule

	ARCHITECTORE																					Inn	ovation	ı, Qua	ity, in	tegrity	y		
Activity ID	Activity Name	Original	Start	Finish			20)21								202	2								202	3			2024
		Duration			Mar A	pr M	Jun	Jul Au	g S	Oct	N De	Jan	FM	ar Apr	M	Jun	Jul Au	g S	Oct	N De	c Jan	FI	Mar Ap	r M	Jun	Jul Au	ug S C	Oct N	D Jan F
Closeout		220	20-Dec-22	24-Jan-24		-				-	-		-			1			-		1			1		-			
A1430	Demobilize Onsite Offices	10	20-Dec-22	09-Jan-23		:	: : :			-	5 5 5					:			-		ן בי	Demob	ilize On	site O	fices	5 5 5			
A1440	Startup and Commissioning Wet	30	03-May-23	27-Jun-23		:	:			:	:		:			:	:		:		: : :		-			Startup	p and Co	mmissionii	ing Wet
A2440	Startup and Commissioning Electrical	30	23-Aug-23	16-Oct-23																					· · · · · · · · · · · · · · · · · · ·			Startur	p and Con
A00714	Final Documentation	16	27-Dec-23	24-Jan-24		-	: : :			-	-								1		: : :			: : :		:			







Appendix (J): March 2022 Schedule Update – Longest Path Before Occurrence of Delay Events

	Kirksey		PNNL G	SL March U Longest	-			-	g del	ays)									RCL	E	AF	Y			
Activity ID	Activity Name	Original	Start	Finish				2022											2023		-				2024
	SI. March Lindets (before adding dalays)	648	01-Jul-21 A	24-Jan-24	Mar	Apr N	lay	lun Ju		ug Se	ep Oo	t No	v Dec	Jan	Feb	Mar	Apr	May	Jun Ju		ig Sep	Oct	Nov	Dec	Jan Fe
	SL March Update (before adding delays)	30	22-Dec-23	24-Jan-24	_	2 2 2 2	1 1 1 1	5 5 5 5	:		-	2 2 2 2	5 5 5			1 1 1 1	: : :	5 5 5 5	1	: : :	-	5 5 5		-	5 5 5 5
	es & Milestones		22-Dec-23			-	1	-	-	1	:	:	:	:	1 1 1 1	:	:	:	8	1	-	1			
A1800	Beneficial Occupancy	0		22-Dec-23*			: : :	5 5 5	:	1	: : :	: : :	: : :		1 1 1 1 1 1 1 1	1	: : :	:	2 2 2	1	1	5 5 5		◆ B	Beneficial
A1810	Final Completion	0		24-Jan-24*			-	-				-				-	-		1	1		1		-	♦ Fir
Delay Fr	agnets	618	01-Jul-21 A	22-Dec-23				-					-		· · ·		1					1			
Switchge	ar Delivery	618	01-Jul-21 A	22-Dec-23																					
A2480	Additional Duration for Switchgear Delivery	121	15-Feb-23	16-Jun-23															Addit	ional D	uration f	or Switch	ngear Del	ivery	
A2490	Delay in Release of Switchgear for Delivery	347	01-Jul-21 A	12-Jun-22	 		-	Delay	in Rel	ease of	Switchg	ear for	Delivery				-					1			
A2510	Additional Duration for Commissioning	65	17-Oct-23	22-Dec-23				-									1							A	Additional
Procure	ment	240	13-Jun-22	14-Feb-23		1	-	-		-	-	8	-			1	1	1	1	-	-	5 5 5			1
Delivery		240	13-Jun-22	14-Feb-23											· · · · ·										
A00989	Electrical Switchgear	240	13-Jun-22	14-Feb-23		-	:				:				E	lectrical	Switch	gear	:	:		: : :		:	:
Building		36	20-Jun-23	22-Aug-23		1	-	-		-		-	: : :			1		1				: : :		1	1
Interior La	ab Buildout	36	20-Jun-23	22-Aug-23				-									-					1			
A1470	[Lab] Set & Terminate Switch Boards	30	20-Jun-23	10-Aug-23																	[Lab] Se	et & Tem	ninate Sv	itch Bo	ards
A1500	[Lab] Final Inspections	6	14-Aug-23	22-Aug-23						·					·						[Lab]	Final In	spections		
Closeou	it	84	23-Aug-23	24-Jan-24		-	-	-	:	-		-				-	: : :	1				1 1 1	1 1 1 1 1 1 1		1
A00714	Final Documentation	16	27-Dec-23	24-Jan-24	1	-	:		:		:	-	: : :			-	:	-	1	:		: : :			Fir
A2440	Startup and Commissioning Electrical	30	23-Aug-23	16-Oct-23		:	:	-	:	:	:	:	: :	5 5 5 5	1 1 1 1	:	1		1	:	:		Startup a	nd Com	nmissionir







Appendix (K): March 2022 Schedule Update – Detailed Schedule After Occurrence of Delay Events

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PNNL GSL March Update (after adding delays) Detailed Schedule

	ARCHITECTURE				Detailed Sc	110 00010				Innovation, O	uality, Integrity	
vity ID	Activity Name	Original	Start	Finish	2021			2022		2023		2024
		Duration			M A M J Ju	I A S O N	D J F M	A M J Jul A S	O N D J F M A	M J Jul A S	O N D J F	MAMJJ
PNNL GS	SL March Update (after adding delays)	1210	31-Mar-21 A	07-Aug-24								
Key Date	es & Milestones	1026	31-Mar-21 A	07-Aug-24								
A1000	NOA Design	0	31-Mar-21 A		♦ NOA Design							
A1830	Construction Start Package 1	0	11-Mar-22 A					Construction Start Package	e1			
A1820	Construction Start Package 2	0	27-May-22					Construction St	art Package 2			
A2520	ECN #06 - TV2 Design Approval	0		20-Nov-22					♦ ECN #06 - TV2 Desig	n Approval	· · · · · · · · ·	
A1800	Beneficial Occupancy	0		10-Jul-24*								•
A1810	Final Completion	0		07-Aug-24*								
Delay Fr	agnets	1012	21-May-21 A	10-Jul-24								
	Equipment & Panels	508	21-May-21 A	27-Feb-23								
A2450	Delay in Finish of Dryroom Equipment & Panels Submittal	421	21-May-21 A					Delay in F	inish of Dryroom Equipment & I	Panels Submittal		
A2460	Additional Duration for Dryroom Equipment & Panels Delivery	105	11-Nov-22	27-Feb-23							om Equipment & Pa	nels Delivery
Lab Layou		175	17-Sep-21 A									
A2470	Delay in Furnish of Lab Layout & Equipment Sheet	175	17-Sep-21 A					Delay in Furnish of Lab La	yout & Equipment Sheet			
	ar Delivery	816	01-Jul-21 A	10-Jul-24								
A2490	Delay in Release of Switchgear for Delivery	347	01-Jul-21 A	12-Jun-22				Delay in Rele	ase of Switchgear for Delivery			
A2480	Additional Duration for Switchgear Delivery	121	26-Jul-23	26-Nov-23	1						Additional I	Duration for Switchg
A2510	Additional Duration for Commissioning	65	07-May-24	10-Jul-24	1							
T&V 2		231	01-Apr-22	20-Nov-22								
A2500	T&V 2 Program Change	231	01-Apr-22	20-Nov-22					T&V 2 Program Chan	je		
Design F		489	31-Mar-21 A	01-May-22							+ +	
A1010	SSU SDs	55	31-Mar-21 A	24-May-21 A	SSU	SDs						
A1020	SSU DDs	42	25-May-21 A	-		SSU DDs						
A2290	Finalize Lab Layout & Equipment Sheet and Issue for Layout Approval	57	22-Jul-21 A				ah lavout & Fo	quipment Sheet and Issue	for Lavout Approval			
A2410	Building Pricing Set	6	28-Sep-21 A				g Pricing Set					
A1050	Building Package - DDs	91	22-Jul-21 A				ing Package -	DDs	· · · · · · · · · · · · · · · · · · ·			
A1030	SSU IFC	189	06-Jul-21 A				SSU IFC					
A1040	Building Package - SDs	16	06-Jul-21 A				: : :	ilding Package - SDs				
A2300	Building Package - 95% CD	170	21-Oct-21 A				;	Building Package - 95%	6 CD			
A1090	Building Package - IFC	28	04-Apr-22	01-May-22				Building Package -				
A1130	MEP BIM Coordination	305	31-Mar-21 A	-	· · · · · · · · · · · · · · · · · · ·			MEP BIM Coordina			L L L	
Procurer		825	12-Apr-21 A	-								
Submittal		382	12-Apr-21 A									
A2020	Dryroom Equipment/Panels	28	12-Apr-21 A			om Equipment/Pane	le					
A2020 A2070	Generator	28	21-Feb-22 A	02-Apr-22				Generator				
A2070	HVAC/Exhaust Equipment	28	01-Apr-22	28-Apr-22				HVAC/Exhaust Equ	linment			
A1940	Chillers	28	01-Apr-22	28-Apr-22	-							
A1940	Pumps	28	01-Apr-22	28-Apr-22								
A1900	Boiler	28	01-Apr-22	28-Apr-22				Boiler				
A2040	Network Equipment/BAS Controls/Access Controls	28	01-Apr-22	28-Apr-22					/BAS Controls/Access Controls			
A2050	Electrical Switchgear	28	01-Apr-22	28-Apr-22				Electrical Switchgea			1 1 1 1 1 1 	
A2100	Elevators	28	01-Apr-22	28-Apr-22								
A2210	Transformers and Disconnects	28	01-Apr-22	28-Apr-22				Transformers and D	isconnects			
A2340	Uninterrupted Power Supply	28	01-Apr-22	28-Apr-22				Uninterrupted Power				
A2420	ТРО	28	01-Apr-22	28-Apr-22								
Delivery		469	03-Apr-22	25-Jul-23								
A00984	HVAC/Exhaust Equipment	73	29-Apr-22	12-Jul-22				HVAC/F	khaust Equipment			
A00904	Chillers	73	29-Apr-22	12-Jul-22				Chillers				. 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
A01000	Boiler	73	29-Apr-22	12-Jul-22				Boiler				
A01009	Pumps	73	29-Apr-22 29-Apr-22	12-Jul-22								
A00987	Network Equipment/BAS Controls/Access Controls	74	29-Apr-22	14-Jul-22					Equipment/BAS Controls/Acces	s Controls		
A00301		15	20-11-22	1								





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PNNL GSL March Update (after adding delays) Detailed Schedule

	ARCHITECTURE													1 11 11 1	ovation	, Quu		LEXIL	y				
ivity ID	Activity Name	Original	Start	Finish		2021					2022					2023							024
		Duration			MAM	1 J Jul	IASO	ND	JF	MA			OND	JFM	A M	J Ju	A	s o	NI	DJ	F	MA	M J JI
A2430	TPO	90	29-Apr-22	29-Jul-22								TPO				1		-		1			
A00991	Elevators	100	29-Apr-22	08-Aug-22								Elevato	ors					-		5 5 5			
A1702	Transformers and Disconnects	150	29-Apr-22	28-Sep-22		: : : :		: : : :	: : : :				Transforme	s and Disc	onnects	1	· · ·	:	· · ·	: : :	· · ·		1 1 1 1 1 1 1 1
A00990	Generator	190	03-Apr-22	12-Oct-22		· · ·					· · · · · ·		Generato		· · ·		· · ·		· · ·	:	· · ·	· · ·	
A2350	Uninterrupted Power Supply	190	29-Apr-22	07-Nov-22	1 1 1 1 1 1	1 1 1 1 1 1		1 1				1 1	Uninte	errupted Po	wer Supp	ly	1 1 1 1 1 1	1	1 1 1 1 1 1	1	1 1 1 1 1 1	1 1	
A01036	Dryroom Equipment/Panels	126	07-Jul-22	10-Nov-22									Dryro	om Equipm	ent/Pane	ls							
A00989	Electrical Switchgear	240	21-Nov-22	25-Jul-23													l Elec	trical S	witchge	ear			
SSU		81	14-Mar-22 A	03-Aug-22																-			
Foundatio	ns	59	14-Mar-22 A	31-May-22																1			
A1670	Foundations/SOG - Lab	20	14-Mar-22 A	-							Foundation	s/SOG -	ab	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·								, , , , , , , , , , , , , , , , , , ,
A1700	Foundations/SOG - Office/T&V Areas	25	14-Mar-22 A	,							Foundation			Areas				1		8			
A1690	Foundations/SOG - HPIL	10	16-May-22								Founda			1000				:		5 5 5			
Steel Stru		51	04-May-22	03-Aug-22														-		5 5 5			
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A1790	Erection and Decking - HPIL	10	01-Jun-22	16-Jun-22									Decking - HF						· · · · · · · · ·				
A1730	Erection and Decking - Lab	40	04-May-22	14-Jul-22									nd Decking										
A1750	Erection and Decking - Office/T&V Areas	45	16-May-22	03-Aug-22								Erection	n and Deckir	ng - Ottice/	I&V Areas								
Building		327	15-Jun-22	31-Jan-24																1			
Building E	inclosure	84	15-Jun-22	14-Nov-22																			
A1780	CMU Walls "HPIL & T&V 2 Suite"	18	15-Jun-22	19-Jul-22								CMU Wa	Is "HPIL & T	&V 2 Suite	•			-	· ·	-			
A1630	Interstitial Exteriors	22	18-Jul-22	23-Aug-22							;;;- ; ; ; [lnter	stitial Exterio	rs									
A1640	Install Building Facades	40	26-Jul-22	04-Oct-22									Install Build	ling Facade	es			-		8			
A1650	Install Terrace/Soffit	23	05-Oct-22	14-Nov-22									Insta					1		5 5 5			
Roof		45	18-Jul-22	04-Oct-22	1										· · ·		· ·	-		:			1 1 1 1 1 1
A00140	Parapet Framing and Sheathing	14	18-Jul-22	09-Aug-22								l Parabe	et Framing a	nd Sheathi	na					1			
A00142	TPO - Lab	14	01-Aug-22	23-Aug-22														·	·				
A1540	Set Roof Top Equipment	10	24-Aug-22	12-Sep-22									et Roof Top	Equinment									
A00145	TPO - Office/T&V Areas	10	24-Aug-22 24-Aug-22	12-Sep-22 19-Sep-22									PO - Office/										
		14		-									TPO - HPIL							1			
A00144	TPO - HPIL	9	20-Sep-22	04-Oct-22									IFO-IFIL	-									
Interior La		311	18-Jul-22	31-Jan-24											·								
A2370	[Lab] Framing/Rough-ins	9	18-Jul-22	01-Aug-22									aming/Roug	1 1				1		5 5 5			
A2380	[Lab] Drywall/Finishes/Paint	19	24-Aug-22	27-Sep-22		: : : :					1 1 1 1 1 1 1 1 1 1 1		[Lab] Drywa			1		1		:	· · · · · · · · · · · · · · · · · · ·		1 1 1 1 1 1 1 1
A2390	[Lab] Set Equipment in Electrical Room	18	28-Sep-22	27-Oct-22									📕 [Lab] Se					ł					
A1510	[Lab] Install East Lab BOH/Corridors	8	31-Oct-22	10-Nov-22							1 1 1 1 1 1 1 1 1 1 1 1		[Lab]	Install East	1 1		ors	1		1			1 1 1 1 1 1 1 1 1
A1490	[Lab] Install UPS	35	08-Nov-22	11-Jan-23							· · · · ·				stall UPS		· · · · · ·				· · · · · · · · · · · · · · · · · · ·		
A1600	[Lab] Install Labs	45	14-Nov-22	02-Feb-23											Install La								
A2330	[Lab] Install Dryroom Equipment/Panels	15	28-Feb-23	23-Mar-23											[Lab] In	stall Dr	/room l	Equipr	nent/Pa	anels			
A1530	[Lab] Install Mech Equipment	16	27-Mar-23	20-Apr-23											📕 [Lal	o] Insta	l Mech	Equip	ment	5 5 5			
A1520	[Lab] Install MDF	18	27-Mar-23	25-Apr-23											📕 [La	b] Insta	II MDF			5			
A2400	[Lab] Install Transformers	25	27-Mar-23	08-May-23											· · ·	ab] Ins	tall Tra	nsform	ners	5 5 5			
A1470	[Lab] Set & Terminate Switch Boards	30	27-Nov-23	22-Jan-24													· · · · · ·				[Lab	Set &	Terminate
A1500	[Lab] Final Inspections	6	23-Jan-24	31-Jan-24														:			[La	b] Final	I Inspection
	rior Buildout	103	04-Aug-22	07-Feb-23														-					
A1230	Office] Framing/Rough-ins	15	04-Aug-22	30-Aug-22									ice] Framing	/Rouah-ins		1							
A1240	[Office] Drywall/Finishes/Paint	24	31-Aug-22	12-Oct-22									[Office] D										
A1280	[Office] MEP Ceiling and Wall Trimouts	18	13-Oct-22	14-Nov-22						· ·				e] MEP Ce		Nall Trir	nouts	·	++-				
A1360	[Office] Install Elevators	45	13-Oct-22	04-Jan-23										[Office] Ir						1			
			05-Jan-23	10-Jan-23										[Office] I						-			
A1320	[Office] Final Clean	3												-, , -				tio		5			
A1330	[Office] Harvey Punch / Completion	1	11-Jan-23	11-Jan-23											Harvey Pu		1 1			5 5 5			1 1 1 1 1 1 1 1 1 1 1 1
A1370	[Office] Install Office Restrooms	15	12-Jan-23	07-Feb-23	····							·		[Offi	cej Install	Uttice I	≺estro	oms	·				, ; ; ; }
Sitescape		66	13-Oct-22	09-Feb-23												1		1		8			
A1400	Generator Pad/Generator	14	13-Oct-22	07-Nov-22											enerator			1		;	1 1		

Remaining Level of Effort Actual Work Critical Remaining Work	Page 2 of 3	
Actual Level of Effort Remaining Work Milestone		







PNNL GSL March Update (after adding delays) Detailed Schedule

Activity ID	Activity Name	Original	Start	Finish			2021	1							2	022									202	23				1	2	2024	
		Duration			MA	M	J Ju	A IL	S	0 1	V D	J	FN	1 A	M J	Jul	Α	S	0	N	D	JF	M	A M	J,	Jul A	A S	0	N D	JF	MA	M	J Jul
A2310	Hardscape	17	07-Dec-22	09-Jan-23				-		-											-	Hards	cape						-				
A2320	Landscape	12	10-Jan-23	30-Jan-23			1			1	-		:		1		:			1		📕 La	ndsca	pę			1 1	1 1 1 1	:		1	1 1 1 1	1 1 1 1
A1420	Site Furnishing	7	31-Jan-23	09-Feb-23			:	:		:	-	1 1 1 1 1 1 1 1	:		: : :		: : :	· ·		:		S S	ite Fu	rnishir	ng		1 1 1 1 1 1	. : : :	:		1		
Closeout		332	20-Dec-22	07-Aug-24																							1 1					1 1	
A1430	Demobilize Onsite Offices	10	20-Dec-22	09-Jan-23													: : :			-	ė	Demo	biliże	Onsit	e Offic	ces	· ·				1		
A1440	Startup and Commissioning Wet	30	23-Jan-24	13-Mar-24				÷		-										1			-					: :	-	: 📫	Sta	rtup a	Ind Çom
A2440	Startup and Commissioning Electrical	30	14-Mar-24	06-May-24	1												: : :															📕 s	Startup ar
A00714	Final Documentation	16	11-Jul-24	07-Aug-24		1		-			-					:								-						1 1 1 1 1 1 1 1	1		: : : 📻

Remaining Level of Effort Actual Work Critical Remaining Work	Page 3 of 3	
Actual Level of Effort Remaining Work Milestone		







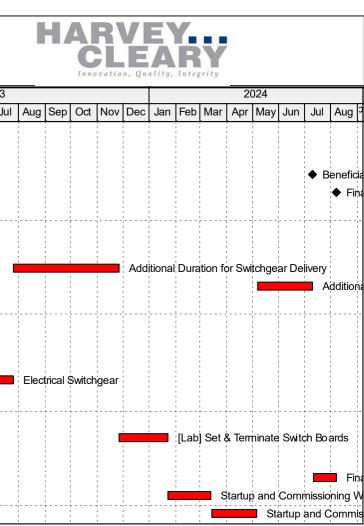


Appendix (L): March 2022 Schedule Update – Longest Path After Occurrence of Delay Events

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PNNL GSL March Update (after adding delays) Longest Path Schedule

ctivity ID	Activity Name	Original	Start	Finish				202	22					ſ					2
		Duration			Mar A	Apr 🛛	Лау	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb M	ar Apr	May	Jun
PNNL G	SSL March Update (after adding delays)	844	01-Apr-22	07-Aug-24						-									
Key Dat	tes & Milestones	613	20-Nov-22	07-Aug-24						- - - -	- - - -	:					- - - - - - -		
A1800	Beneficial Occupancy	0		10-Jul-24*		:	:			: : :	: : :	: : :	:	· · ·	:	: : :	5 5 5	: : :	: : :
A1810	Final Completion	0		07-Aug-24*						:	-	-				:	:		
A2520	ECN #06 - TV2 Design Approval	0		20-Nov-22						: : :	- - -	- - -	•	ECN #	¥06 - ⁻	TV2 De	sign Ap	proval	
Delay F	Fragnets	816	01-Apr-22	10-Jul-24												1			
Switchg	jear Delivery	345	26-Jul-23	10-Jul-24						- - -	-	1 1 1	1				1		
A2480	Additional Duration for Switchgear Delivery	121	26-Jul-23	26-Nov-23							-						1		-
A2510	Additional Duration for Commissioning	65	07-May-24	10-Jul-24							-					-	1		
T&V 2		231	01-Apr-22	20-Nov-22															
A2500	T&V 2 Program Change	231	01-Apr-22	20-Nov-22				:			:	:	:	T&V 2	Prog	ram Ch	ange		: : :
Procure	ement	240	21-Nov-22	25-Jul-23						:	:			· ·			1		1
Delivery		240	21-Nov-22	25-Jul-23						1	1	1				1	1		1
A00989	Electrical Switchgear	240	21-Nov-22	25-Jul-23						1	-	-							<u> </u>
Buildin	g	30	27-Nov-23	22-Jan-24						1 1 1	1	1 1 1	1				1		-
Interior L	Lab Buildout	30	27-Nov-23	22-Jan-24													I I I		•
A1470	[Lab] Set & Terminate Switch Boards	30	27-Nov-23	22-Jan-24							-	-				-	1		
Closeo	ut	114	23-Jan-24	07-Aug-24						:	: : :	:				-	-		: : :
A00714	Final Documentation	16	11-Jul-24	07-Aug-24			:	:		: : :	: : :	:	:	· ·	-	:	5 5 5		: : :
A1440	Startup and Commissioning Wet	30	23-Jan-24	13-Mar-24		-	:			-	- - - -	- - - - -			-	:	- - - - -		: : :
A2440	Startup and Commissioning Electrical	30	14-Mar-24	06-May-24							;	;							









Appendix (M): March 2022 Schedule Update with Mitigation – Detailed Schedule After Occurrence of Delay Events

	Kirksey ARCHITECTURE	PN	INL GSL	March U	pdate (after adding delays) with Mitigation Detailed Schedule	HARVEY. CLEARY Innovation, Quality, Integrity
Activity ID	Activity Name	Original Duration	Start	Finish	2021	2022 2023 2024
					Mar Apr M Jun Jul Aug S Oct N Dec Jan F Mar Apr	M Jun Jul Aug S Oct N Dec Jan F Mar Apr M Jun Jul Aug S Oct N D Jan Fe
PNNL GS	L March Update (after adding delays) with Mitigation	1014	31-Mar-21 A	24-Jan-24		
Key Date	s & Milestones	830	31-Mar-21 A	24-Jan-24		
A1000	NOA Design	0	31-Mar-21 A		◆ NOA Design	
A1830	Construction Start Package 1	0	11-Mar-22 A		◆ Constru	iction Start Package 1
A1820	Construction Start Package 2	0	27-May-22			Construction Start Package 2
A2520	ECN #06 - TV2 Design Approval	0		20-Nov-22		♦ ECN #06 - TV2 Design Approval
A1800	Beneficial Occupancy with Mitigation	0		22-Dec-23*		◆ Benefi
A1810	Final Completion	0		24-Jan-24*		◆ F
Delay Fra	agnets	814	21-May-21 A	22-Dec-23		
Dryroom E	quipment & Panels	508	21-May-21 A	27-Feb-23		
A2450	Delay in Finish of Dryroom Equipment & Panels Submittal	421	21-May-21 A	06-Jul-22		Delay in Finish of Dryroom Equipment & Panels Submittal
A2460	Additional Duration for Dryroom Equipment & Panels Delivery	105	11-Nov-22	27-Feb-23		Additional Duration for Dryroom Equipment & Panels De
Lab Layou		175	17-Sep-21 A	10-Mar-22 A		
A2470	Delay in Furnish of Lab Layout & Equipment Sheet	175	17-Sep-21 A	10-Mar-22 A	Delay ir	n Furnish of Lab Layout & Equipment Sheet
Switchgea	r Delivery	618	01-Jul-21 A	22-Dec-23		
A2490	Delay in Release of Switchgear for Delivery	347	01-Jul-21 A	12-Jun-22		Delay in Release of Switchgear for Delivery
A2480	Additional Duration for Switchgear Delivery	121	15-Feb-23	16-Jun-23		Additional Duration for Switchgear De
A2510	Additional Duration for Commissioning	65	17-Oct-23	22-Dec-23		Additic
T&V 2		231	01-Apr-22	20-Nov-22		
A2500	T&V 2 Program Change	231	01-Apr-22	20-Nov-22		T&V:2 Program Change
Design P	hase	489	31-Mar-21 A	01 - May-22		
A1010	SSU SDs	55	31-Mar-21 A	24-May-21 A	SSU SDs	
A1020	SSU DDs	42	25-May-21 A	06-Jul-21 A	SSU DDs	
A2290	Finalize Lab Layout & Equipment Sheet and Issue for Layout Approval	57	22-Jul-21 A	16-Sep-21 A	Finalize Lab Layout & Equipment Sh	eet and Issue for Layout Approval
A2410	Building Pricing Set	6	28-Sep-21 A	03-Oct-21 A	Building Pricing Set	
A1050	Building Package - DDs	91	22-Jul-21 A	20-Oct-21 A	Building Package - DDs	
A1030	SSU IFC	189	06-Jul-21 A	10-Jan-22 A	SSU IFC	
A1040	Building Package - SDs	16	06-Jul-21 A	17-Feb-22 A	Building Pa	ickage - SDs
A2300	Building Package - 95% CD	170	21-Oct-21 A	03-Apr-22	Buil	ding Package - 95% CD
A1090	Building Package - IFC	28	04-Apr-22	01-May-22		Building Package - IFC
A1130	MEP BIM Coordination	305	31-Mar-21 A	01-May-22		MEP BIM Coordination
Procuren	nent	667	12-Apr-21 A	14-Feb-23		
Submittals	3	382	12-Apr-21 A	28-Apr-22		
A2020	Dryroom Equipment/Panels	28	12-Apr-21 A	21-May-21 A	Dryroom Equipment/Panels	
A2070	Generator	28	21-Feb-22 A	02-Apr-22	Ger	nerator
A1870	HVAC/Exhaust Equipment	28	01-Apr-22	28-Apr-22		HVAC/Exhaust Equipment
A1940	Chillers	28	01-Apr-22	28-Apr-22]	Chillers
A1960	Pumps	28	01-Apr-22	28-Apr-22		Pumps
A2040	Boiler	28	01-Apr-22	28-Apr-22]	Boiler
A2050	Network Equipment/BAS Controls/Access Controls	28	01-Apr-22	28-Apr-22		Network Equipment/BAS Controls/Access Controls
A2060	Electrical Switchgear	28	01-Apr-22	28-Apr-22		Electrical Switchgear
A2100	Elevators	28	01-Apr-22	28-Apr-22]	Elevators
A2210	Transformers and Disconnects	28	01-Apr-22	28-Apr-22		Transformers and Disconnects
A2340	Uninterrupted Power Supply	28	01-Apr-22	28-Apr-22		Uninterrupted Power Supply
A2420	ТРО	28	01-Apr-22	28-Apr-22		TPO
Delivery		311	03-Apr-22	14-Feb-23		
A00984	HVAC/Exhaust Equipment	73	29-Apr-22	12-Jul-22]	HVAC/Exhaust Equipment
A01033	Chillers	73	29-Apr-22	12-Jul-22		Chillers
A01009	Boiler	73	29-Apr-22	12-Jul-22]	Boiler
A01041	Pumps	74	29-Apr-22	13-Jul-22]	Pumps
A00987	Network Equipment/BAS Controls/Access Controls	75	29-Apr-22	14-Jul-22		Network Equipment/BAS Controls/Access Controls
	aining Level of Effort Actual Work Critical Remaining V al Level of Effort Remaining Work A Milestone	Work			Page 1 of 3	EISE EISE COM SCHEDULING EISE Hande Values Values Values





	Kirksey ARCHITECTURE	PN	NL GSL	March U	e (after adding delays) with Mitigation ailed Schedule	HARVEY, CLEARY Innovation, Quality, Integrity
tivity ID	Activity Name	Original	Start	Finish	2021 202	
40400	TRO	Į	00.400	00.1.1.00	pr M Jun Jul Aug S Oct N Dec Jan F Mar Apr M Jun	Jul Aug S Oct N Dec Jan F Mar Apr M Jun Jul Aug S Oct N D Jan
A2430	TPO Structure	90	29-Apr-22	29-Jul-22		
A00991	Elevators	100	29-Apr-22	08-Aug-22		Elevators
A1702	Transformers and Disconnects	150	29-Apr-22	28-Sep-22		Transformers and Disconnects
A00990	Generator	190	03-Apr-22	12-Oct-22		Generator
A2350	Uninterrupted Power Supply	190	29-Apr-22	07-Nov-22		Uninterrupted Power Supply
A01036	Dryroom Equipment/Panels	126	07-Jul-22	10-Nov-22		Dryroom Equipment/Panels
A00989	Electrical Switchgear	240	13-Jun-22	14-Feb-23		Electrical Switchgear
SSU		81	14-Mar-22 A	, , , , , , , , , , , , , , , , , , ,		
Foundatio		59	14-Mar-22 A			
A1670	Foundations/SOG - Lab	20	14-Mar-22 A		Foundati	
A1700	Foundations/SOG - Office/T&V Areas	25	14-Mar-22 A	-		ations/SOG - Office/T&V Areas
A1690	Foundations/SOG - HPIL	10	16-May-22		E Fou	ndations/SOG - HPIL
Steel Stru		51	04-May-22	03-Aug-22		
A1790	Erection and Decking - HPIL	10	01-Jun-22	16-Jun-22		rection and Decking - HPIL
A1730	Erection and Decking - Lab	40	04-May-22	14-Jul-22		Erection and Decking - Lab
A1750	Erection and Decking - Office/T&V Areas	45	16-May-22	03-Aug-22		Erection and Decking - Office/T&V Areas
Building		239	15-Jun-22	22-Aug-23		
Building E	Enclosure	84	15-Jun-22	14-Nov-22		
A1780	CMU Walls "HPIL & T&V 2 Suite"	18	15-Jun-22	19-Jul-22		CMU Walls "HPIL & T&V 2 Suite"
A1630	Interstitial Exteriors	22	18-Jul-22	23-Aug-22		Interstitial Exteriors
A1640	Install Building Facades	40	26-Jul-22	04-Oct-22		Install Building Facades
A1650	Install Terrace/Soffit	23	05-Oct-22	14-Nov-22		Install Terrace/Soffit
Roof		45	18-Jul-22	04-Oct-22		
A00140	Parapet Framing and Sheathing	14	18-Jul-22	09-Aug-22		Parapet Framing and Sheathing
A00142	TPO - Lab	14	01-Aug-22	23-Aug-22		TPO - Lab
A1540	Set Roof Top Equipment	10	24-Aug-22	12-Sep-22		📁 Şet Roof Top Equipment
A00145	TPO - Office/T&V Areas	14	24-Aug-22	19-Sep-22		TPO - Office/T&V Areas
A00144	TPO - HPIL	9	20-Sep-22	04-Oct-22		📫 TPO-HPIL
Interior La	b Buildout	223	18-Jul-22	22-Aug-23		
A2370	[Lab] Framing/Rough-ins	9	18-Jul-22	01-Aug-22		Lab] Framing/Rough-ins
A2380	[Lab] Drywall/Finishes/Paint	19	24-Aug-22	27-Sep-22		[Lab] Drywall/Finishes/Paint
A2390	[Lab] Set Equipment in Electrical Room	18	28-Sep-22	27-Oct-22		[Lab] Set Equipment in Electrical Room
A1510	[Lab] Install East Lab BOH/Corridors	8	31-Oct-22	10-Nov-22		📕 [Lab] Install East Lab BOH/Corridors
A1490	[Lab] Install UPS	35	08-Nov-22	11-Jan-23		[Lab] Install UPS
A1600	[Lab] Install Labs	45	14-Nov-22	02-Feb-23		[Lab] Install Labs
A2330	[Lab] Install Dryroom Equipment/Panels	15	28-Feb-23	23-Mar-23		[Lab] Install Dryroom Equipment/Panels
A1530	[Lab] Install Mech Equipment	16	27-Mar-23	20-Apr-23		[Lab] Install Mech Equipment
A1520	[Lab] Install MDF	18	27-Mar-23	25-Apr-23		[Lab] Install MDF
A2400	[Lab] Install Transformers	25	27-Mar-23	08-May-23		[Lab] Install Transformers
A1470	[Lab] Set & Terminate Switch Boards	30	20-Jun-23	10-Aug-23		[Lab] Set & Terminate Swi
A1500	[Lab] Final Inspections	6	14-Aug-23	22-Aug-23		[Lab] Final Inspections
Office Inte	erior Buildout	103	04-Aug-22	07-Feb-23		
A1230	[Office] Framing/Rough-ins	15	04-Aug-22	30-Aug-22		[Office] Framing/Rough-ins
A1240	[Office] Drywall/Finishes/Paint	24	31-Aug-22	12-Oct-22		[Office] Drywall/Finishes/Paint
A1280	[Office] MEP Ceiling and Wall Trimouts	18	13-Oct-22	14-Nov-22		[Office] MEP Ceiling and Wall Trimouts
A1360	[Office] Install Elevators	45	13-Oct-22	04-Jan-23		[Office] Install Elevators
A1320	[Office] Final Clean	3	05-Jan-23	10-Jan-23		[Office] Final Clean
A1330	[Office] Harvey Punch / Completion	1	11-Jan-23	11-Jan-23		I [Office] Harvey Punch / Completion
A1370	[Office] Install Office Restrooms	15	12-Jan-23	07-Feb-23		[Office] Install Office Restrooms
Sitescape		66	13-Oct-22	09-Feb-23		
A1400	Generator Pad/Generator	14	13-Oct-22	07-Nov-22		Generator Pad/Generator

Remaining Level of Effort Actual Work Critical Remaining Work	Page 2 of 3	
Actual Level of Effort Remaining Work Milestone		





	Kirksey	PN	PNNL GSL March Update (after adding delays) with Mitigation Detailed Schedule											HAF	HARVEY, CLEARY INNOVATION, Quality, Integrity							
Activity ID	Activity Name	Original	Start	Finish			2021					2022				2023		2024				
		Duration			Mar Ap	r M Ju	ın Jul Au	g S O	ct N	Dec Ja	an F Mar Apr	M Jun Ju	I Aug S Oct N De	c Jan F Ma	ar Apr M	Jun Jul Aug	S Oct N D	Jan Fet				
A2310	Hardscape	17	07-Dec-22	09-Jan-23										Hardscap	e							
A2320	Landscape	12	10-Jan-23	30-Jan-23					-	· · ·				🔲 Lands	scape							
A1420	Site Furnishing	7	31-Jan-23	09-Feb-23											Furnishing							
Closeout		220	20-Dec-22	24-Jan-24																		
A1430	Demobilize Onsite Offices	10	20-Dec-22	09-Jan-23										Demobiliz	ze Onsite Off	ces						
A1440	Startup and Commissioning Wet	30	14-Aug-23	04-Oct-23													Startup and	d Commis				
A2440	Startup and Commissioning Electrical	30	23-Aug-23	16-Oct-23													Startup a	and Comm				
A00714	Final Documentation	16	27-Dec-23	24-Jan-24														Fir				







Appendix (N): March 2022 Schedule Update with Mitigation – Longest Path After Occurrence of Delay Events

	Kirksey	PNNL GSL March Update (after adding delays) with Mitigation Longest Path Schedule												HARVEY. CLEARY Innovation, Quality, Integrity													
Activity ID	Activity Name	Original Duration	Start	Finish				2022					L					-	_	2023	_	-					024
					Mar	Apr	May	Jun	Jul A	ug S	ep Oc	t Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	n Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb
PNNL G	SL March Update (after adding delays) with Mitigation	648	01-Jul-21 A	24-Jan-24				-	-	:	:	2 2 2	:	:	: : :		:	: : :	5 5 5	1	2 2 2	:	: : :	1	1 1 1	:	5 5 5
Key Date	es & Milestones	30	22-Dec-23	24-Jan-24			:	5 5 5	5 5 5	:	:	5 5 5	:	: : :	: : :	1 : 1 : 1 :	: : :	: : :	5 5 5	: : :	5 5 5	:	: : :	1	1 1 1	: : :	:
A1800	Beneficial Occupancy with Mitigation	0		22-Dec-23*	1		: : :	: : :	: : :	:	:	5 5 5	:	:	: : :	5 : 5 : 5 :	: : :	: : :	: : :	1 1 1	5 5 5	:	:	1	•	Benef	ficial O
A1810	Final Completion	0		24-Jan-24*					1		-	1			1	1	:	1	1	1	1	1	1		1	-	Fina
Delay Fr	agnets	618	01-Jul-21 A	22-Dec-23				1	1			5 5 5			1	1 1 1	: : :	1	1	1	1		1	1	1	1	1
Switchge	ar Delivery	618	01-Jul-21 A	22-Dec-23																							
A2480	Additional Duration for Switchgear Delivery	121	15-Feb-23	16-Jun-23								-		-				1	,	Additic	nal Du	ration fo	or Swite	hgear D) elivery	/	
A2490	Delay in Release of Switchgear for Delivery	347	01-Jul-21 A	12-Jun-22				Dela	y in Re	lease of	Switchg	ear for D	Delivery					1	1				1		1		1
A2510	Additional Duration for Commissioning	65	17-Oct-23	22-Dec-23					-			-					:	1 1 1	1	1		-			Ļ.	Additi	ional D
Procurer	ment	240	13-Jun-22	14-Feb-23				: : :	5 5 5	:	:	5 5 5	:	: : :	1 1 1		: : :	1 1 1	: : :	1 1 1	5 5 5	:	: : :	1	1 1 1	: : :	: : :
Delivery		240	13-Jun-22	14-Feb-23													 : :										
A00989	Electrical Switchgear	240	13-Jun-22	14-Feb-23					:					:	Ē	Electrica	al Swite	chgear	:	1	:	:	:		1 1 1	:	:
Building		36	20-Jun-23	22-Aug-23					1							1			1								
Interior La	ab Buildout	36	20-Jun-23	22-Aug-23				-				1			1	1		1	1	1	1	1	1		1		1
A1470	[Lab] Set & Terminate Switch Boards	30	20-Jun-23	10-Aug-23	1				1			1			1		: : :	1			<u> </u>	Lab] Se	et & Tei	minate	Switch	Boards	;
A1500	[Lab] Final Inspections	6	14-Aug-23	22-Aug-23	1																	[Lab]	Final I	nspectio	ns		
Closeou	t	90	14-Aug-23	24-Jan-24				-	5 5 5					: : :	-	1 1 1	:	8 8 8		1	-		: : :	1	1	1	
A00714	Final Documentation	16	27-Dec-23	24-Jan-24					: : :			: : :			: : :		:	1 1 1	: : :	1	2 2 2	:	:		: : :		Fina
A1440	Startup and Commissioning Wet	30	14-Aug-23	04-Oct-23	1			-	-			-		:		1 1	:	: : :	:	1			St	artup an	d Com	nmissior	ning W
A2440	Startup and Commissioning Electrical	30	23-Aug-23	16-Oct-23	1				:	:	:	2 2 2			-		: : :	: : :	1 1 1	1				Startup	and C	ommis	sioning

