

ID	WBS	Task Name	Duration	Start	Finish	Predecessor	3rd Quarter			4th Quarter			1st Quarter			2nd Quarter			3rd Quarter			4th Quarter			1st Quarter			2nd Quarter						
							Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun				
1	1	PHASE 1 - SCADA PROGRAMMING PROJECT PLANNING AND INITIATION	433 days	Fri 9/1/23	Wed 5/21/25																													
2	1.1	SCADA PROGRAMMING EXECUTION PLAN	5 days	Fri 9/1/23	Fri 9/8/23																													
3	1.1.1	Notice to Proceed	0 days	Fri 9/1/23	Fri 9/1/23																													
4	1.1.2	Develop Plan	4 days	Fri 9/1/23	Thu 9/7/23	3																												
5	1.1.3	QA/QC Plan	1 day	Fri 9/8/23	Fri 9/8/23	4																												
6	1.1.4	Submit Plan	0 days	Fri 9/8/23	Fri 9/8/23	5																												
7	1.2	SCADA PROGRAMMING KICKOFF MEETING	11 days	Mon 9/11/23	Mon 9/25/23																													
8	1.2.1	Internal Planning Meetings	4 days	Mon 9/11/23	Thu 9/14/23	6																												
9	1.2.2	Kickoff Meeting	0 days	Mon 9/18/23	Mon 9/18/23	8FS+2 da																												
10	1.2.3	Develop and Submit Kickoff Meeting Minutes	1 day	Mon 9/25/23	Mon 9/25/23	12SF																												
11	1.3	SCADA PROGRAMMING EXECUTION AND CONTROL	417 days	Mon 9/25/23	Wed 5/21/25																													
12	1.3.1	Submit Revised Project Execution Plan	0 days	Mon 9/25/23	Mon 9/25/23	9FS+5 da																												
13	1.3.2	Future Enhancements List and Virtual Meeting	2 days	Mon 5/19/25	Tue 5/20/25	195																												
14	1.3.3	Closeout Documentation	1 day	Wed 5/21/25	Wed 5/21/25	13																												
15	1.4	SCADA PROGRAMMING PROGRESS MEETINGS	355.25 days	Thu 10/19/23	Thu 3/20/25																													
16	1.4.1	Monthly Progress Meetings	355.25 days	Thu 10/19/23	Thu 3/20/25																													
17	1.4.1.1	Monthly Progress Meeting 1	2 hrs	Thu 10/19/23	Thu 10/19/23																													
18	1.4.1.2	Monthly Progress Meeting 2	2 hrs	Thu 11/16/23	Thu 11/16/23																													
19	1.4.1.3	Monthly Progress Meeting 3	2 hrs	Thu 12/21/23	Thu 12/21/23																													
20	1.4.1.4	Monthly Progress Meeting 4	2 hrs	Thu 1/18/24	Thu 1/18/24																													
21	1.4.1.5	Monthly Progress Meeting 5	2 hrs	Thu 2/15/24	Thu 2/15/24																													
22	1.4.1.6	Monthly Progress Meeting 6	2 hrs	Thu 3/21/24	Thu 3/21/24																													
23	1.4.1.7	Monthly Progress Meeting 7	2 hrs	Thu 4/18/24	Thu 4/18/24																													
24	1.4.1.8	Monthly Progress Meeting 8	2 hrs	Thu 5/16/24	Thu 5/16/24																													
25	1.4.1.9	Monthly Progress Meeting 9	2 hrs	Thu 6/20/24	Thu 6/20/24																													
26	1.4.1.10	Monthly Progress Meeting 10	2 hrs	Thu 7/18/24	Thu 7/18/24																													
27	1.4.1.11	Monthly Progress Meeting 11	2 hrs	Thu 8/15/24	Thu 8/15/24																													
28	1.4.1.12	Monthly Progress Meeting 12	2 hrs	Thu 9/19/24	Thu 9/19/24																													
29	1.4.1.13	Monthly Progress Meeting 13	2 hrs	Thu 10/17/24	Thu 10/17/24																													
30	1.4.1.14	Monthly Progress Meeting 14	2 hrs	Thu 11/21/24	Thu 11/21/24																													
31	1.4.1.15	Monthly Progress Meeting 15	2 hrs	Thu 12/19/24	Thu 12/19/24																													
32	1.4.1.16	Monthly Progress Meeting 16	2 hrs	Thu 1/16/25	Thu 1/16/25																													

Project: NBU HMI Replacement
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							Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
97	3.1.1.1.3	QA/QC Graphics Submittal 3	1 day	Wed 8/7/24	Wed 8/7/24	98FS-30																								
98	3.1.1.1.4	QA/QC Graphics Submittal 4	1 day	Wed 9/18/24	Wed 9/18/24	99FS-30																								
99	3.1.1.1.5	QA/QC Graphics Submittal 5	1 day	Tue 10/29/24	Tue 10/29/24	100FS-30																								
100	3.1.1.1.6	QA/QC Graphics Submittal 6	1 day	Wed 12/11/24	Wed 12/11/24	144FF																								
101	3.1.1.2	Submit Graphics for Review	141 days	Tue 5/21/24	Wed 12/11/24																									
102	3.1.1.2.1	Submit Graphics for Review 1	0 days	Tue 5/21/24	Tue 5/21/24	95																								
103	3.1.1.2.2	Submit Graphics for Review 2	0 days	Wed 6/26/24	Wed 6/26/24	96																								
104	3.1.1.2.3	Submit Graphics for Review 3	0 days	Wed 8/7/24	Wed 8/7/24	97																								
105	3.1.1.2.4	Submit Graphics for Review 4	0 days	Wed 9/18/24	Wed 9/18/24	98																								
106	3.1.1.2.5	Submit Graphics for Review 5	0 days	Tue 10/29/24	Tue 10/29/24	99																								
107	3.1.1.2.6	Submit Graphics for Review 6	0 days	Wed 12/11/24	Wed 12/11/24	100																								
108	3.1.1.3	NBU Graphics Review	151 days	Wed 5/22/24	Fri 12/27/24																									
109	3.1.1.3.1	NBU Graphics Review 1	10 days	Wed 5/22/24	Wed 6/5/24	102																								
110	3.1.1.3.2	NBU Graphics Review 2	10 days	Thu 6/27/24	Thu 7/11/24	103																								
111	3.1.1.3.3	NBU Graphics Review 3	10 days	Thu 8/8/24	Wed 8/21/24	104																								
112	3.1.1.3.4	NBU Graphics Review 4	10 days	Thu 9/19/24	Wed 10/2/24	105																								
113	3.1.1.3.5	NBU Graphics Review 5	10 days	Wed 10/30/24	Tue 11/12/24	106																								
114	3.1.1.3.6	NBU Graphics Review 6	10 days	Thu 12/12/24	Fri 12/27/24	107																								
115	3.1.2	Historical Data Management and Reports Submittal	6 days	Thu 5/16/24	Thu 5/23/24																									
116	3.1.2.1	Develop Historical Data Management and Reports Submittal	5 days	Thu 5/16/24	Wed 5/22/24	181																								
117	3.1.2.2	QA/QC Historical Data Management and Reports Submittal	1 day	Thu 5/23/24	Thu 5/23/24	116																								
118	3.1.2.3	Submit Historical Data Management and Reports Submittal	0 days	Thu 5/23/24	Thu 5/23/24	117																								
119	3.1.3	HMI Testing Procedures Submittal	11 days	Thu 2/29/24	Thu 3/14/24																									
120	3.1.3.1	Develop HMI Testing Procedures Submittal	10 days	Thu 2/29/24	Wed 3/13/24	143																								
121	3.1.3.2	QA/QC HMI Testing Procedures Submittal	1 day	Thu 3/14/24	Thu 3/14/24	120																								
122	3.1.3.3	Submit HMI Testing Procedures Submittal	0 days	Thu 3/14/24	Thu 3/14/24	121																								
123	3.1.4	PLC Testing Procedures Submittal	22 days	Thu 2/22/24	Fri 3/22/24																									
124	3.1.4.1	Develop PLC Testing Procedures Submittal	20 days	Thu 2/22/24	Wed 3/20/24	56																								
125	3.1.4.2	QA/QC PLC Testing Procedures Submittal	2 days	Thu 3/21/24	Fri 3/22/24	124																								
126	3.1.4.3	Submit PLC Testing Procedures Submittal	0 days	Fri 3/22/24	Fri 3/22/24	125																								
127	3.1.5	Software Maintenance Documentation Submittal	11 days	Tue 1/21/25	Tue 2/4/25																									
128	3.1.5.1	Develop Software Maintenance Documentation Submittal	10 days	Tue 1/21/25	Mon 2/3/25	188																								

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External Tasks

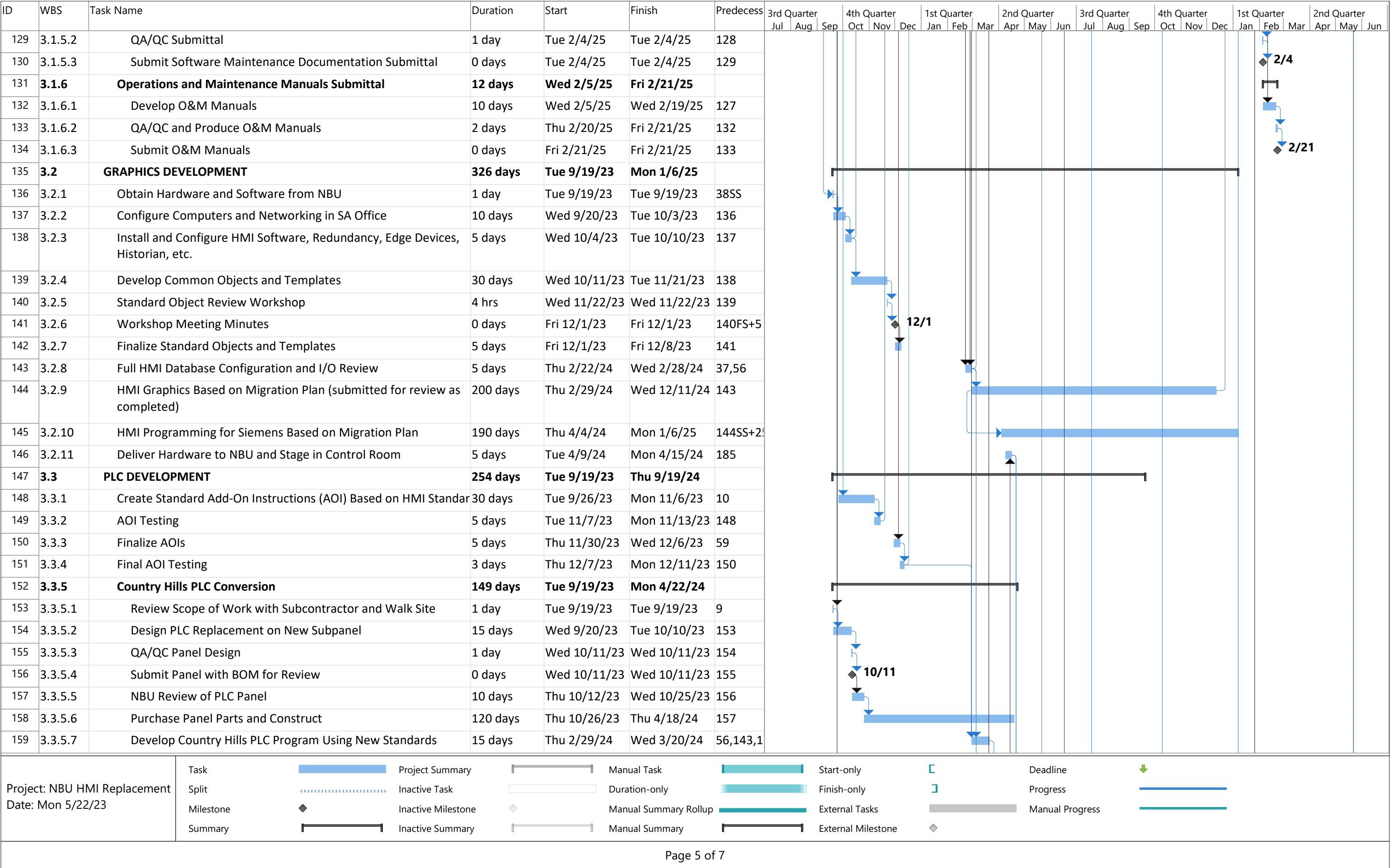
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							Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
160	3.3.5.8	Develop Country Hills HMI Graphics	5 days	Thu 3/21/24	Wed 3/27/24	159																								
161	3.3.5.9	Test Country Hills Programming	5 days	Thu 3/28/24	Wed 4/3/24	160																								
162	3.3.5.10	Install and Commission Country Hills	5 days	Tue 4/16/24	Mon 4/22/24	146																								
163	3.3.6	Update Remaining Rockwell PLCs Based on Migration Plan	90 days	Tue 5/14/24	Thu 9/19/24	162FS+1																								
164	3.4	EXTERNAL APPLICATIONS DATA TRANSFER	9.25 days	Thu 2/29/24	Wed 3/13/24																									
165	3.4.1	Review Data Needed for HachWIMS	1 day	Thu 2/29/24	Thu 2/29/24	143																								
166	3.4.2	Identify Data from New Database for HachWIMS and Schedule Workshop	1 day	Fri 3/1/24	Fri 3/1/24	165																								
167	3.4.3	Data Transfer Workshop	2 hrs	Mon 3/4/24	Mon 3/4/24	166																								
168	3.4.4	Submit Workshop Meeting Minutes	0 days	Mon 3/11/24	Mon 3/11/24	167FS+5																								
169	3.4.5	Configuration of Data Transfer to CSV Type Files for WIMS	2 days	Mon 3/11/24	Wed 3/13/24	168																								
170	3.5	HISTORICAL CONFIGURATION	202 days	Tue 9/19/23	Mon 7/8/24																									
171	3.5.1	Historian Data Migration	156 days	Tue 9/19/23	Wed 5/1/24																									
172	3.5.1.1	Review Existing Historian Configuration and Obtain Historical Data Archives	2 days	Tue 9/19/23	Wed 9/20/23	9																								
173	3.5.1.2	Complete Review of Existing Data and Tags Compared to New Tag Database	5 days	Thu 2/29/24	Wed 3/6/24	143																								
174	3.5.1.3	Develop Historian Tag Additions and Modifications Report	4 days	Thu 3/7/24	Tue 3/12/24	173																								
175	3.5.1.4	QA/QC Historian Report	1 day	Wed 3/13/24	Wed 3/13/24	174																								
176	3.5.1.5	Submit Historian Report	0 days	Wed 3/13/24	Wed 3/13/24	175																								
177	3.5.1.6	NBU Review of Historian Report	10 days	Thu 3/14/24	Wed 3/27/24	176																								
178	3.5.1.7	Develop Historian Import Tool and Procedure to New Historian	20 days	Thu 3/28/24	Wed 4/24/24	177																								
179	3.5.1.8	Import and Test Data	5 days	Thu 4/25/24	Wed 5/1/24	178																								
180	3.5.2	Historical Reports	46 days	Thu 5/2/24	Mon 7/8/24																									
181	3.5.2.1	Develop Draft Reports	10 days	Thu 5/2/24	Wed 5/15/24	179																								
182	3.5.2.2	Develop Final Reports	10 days	Mon 6/17/24	Fri 6/28/24	118FS+1																								
183	3.5.2.3	Test Reports	5 days	Mon 7/1/24	Mon 7/8/24	182																								
184	3.6	TESTING AND COMMISSIONING	297 days	Fri 3/15/24	Fri 5/16/25																									
185	3.6.1	HMI Software Demonstration Test	17 days	Fri 3/15/24	Mon 4/8/24																									
186	3.6.1.1	HMI Internal Testing	15 days	Fri 3/15/24	Thu 4/4/24	119																								
187	3.6.1.2	HMI Software Demonstration Test	2 days	Fri 4/5/24	Mon 4/8/24	186																								
188	3.6.2	HMI Operational Readiness Test (ORT)	126 days	Fri 7/19/24	Mon 1/20/25																									
189	3.6.2.1	HMI ORT 1	10 days	Fri 7/19/24	Thu 8/1/24	110FS+5																								

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							Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun				
190	3.6.2.2	HMI ORT 2	10 days	Thu 10/10/24	Wed 10/23/24	112FS+5																												
191	3.6.2.3	HMI ORT 3	10 days	Tue 1/7/25	Mon 1/20/25	114FS+5																												
192	3.6.3	Rockwell PLC ORT	90 days	Fri 9/20/24	Thu 1/30/25	163																												
193	3.6.4	Siemens PLC to HMI ORT	30 days	Fri 1/31/25	Fri 3/14/25	192																												
194	3.6.5	30-Day Site Acceptance Test	30 days	Mon 3/17/25	Fri 4/25/25	193																												
195	3.6.6	Punch List	15 days	Mon 4/28/25	Fri 5/16/25	194																												
196	3.7	CHANGE MANAGEMENT SOFTWARE CONFIGURATION	7 days	Mon 3/17/25	Tue 3/25/25																													
197	3.7.1	Discuss and Configure Change Management Software	5 days	Mon 3/17/25	Fri 3/21/25	193																												
198	3.7.2	Test Change Management Software	2 days	Mon 3/24/25	Tue 3/25/25	197																												
199	3.8	SCADA TRAINING	258 days	Tue 4/16/24	Wed 4/23/25																													
200	3.8.1	Control System Overview Training	5.25 days	Tue 4/16/24	Tue 4/23/24																													
201	3.8.1.1	Control System Overview Training Prep	4 days	Tue 4/16/24	Fri 4/19/24	146																												
202	3.8.1.2	QA/QC and Produce Training Material	1 day	Mon 4/22/24	Mon 4/22/24	201																												
203	3.8.1.3	Control System Overview Training	2 hrs	Tue 4/23/24	Tue 4/23/24	202																												
204	3.8.2	Operator Control System Training	181 days	Tue 7/2/24	Fri 3/21/25																													
205	3.8.2.1	Operator Control System Training 1 Prep	10 days	Tue 7/2/24	Wed 7/17/24	206SF																												
206	3.8.2.2	QA/QC and Produce Training Material	1 day	Wed 7/17/24	Thu 7/18/24	207SF																												
207	3.8.2.3	Operator Control System Training 1	1 day	Thu 7/18/24	Fri 7/19/24	188SF																												
208	3.8.2.4	Update, QA/QC, and Produce Training Material	1 day	Mon 3/17/25	Mon 3/17/25	193																												
209	3.8.2.5	Operator Control System Training 2 Prep	3 days	Tue 3/18/25	Thu 3/20/25	208																												
210	3.8.2.6	Operator Control System Training 2	1 day	Fri 3/21/25	Fri 3/21/25	209																												
211	3.8.3	Software Maintenance and Administration Training	13 days	Mon 3/24/25	Wed 4/9/25																													
212	3.8.3.1	Software Maintenance and Administration Training Prep	10 days	Mon 3/24/25	Fri 4/4/25	210																												
213	3.8.3.2	QA/QC and Produce Training Material	1 day	Mon 4/7/25	Mon 4/7/25	212																												
214	3.8.3.3	Software Maintenance and Administration Training	2 days	Tue 4/8/25	Wed 4/9/25	213																												
215	3.8.4	Historian Training	10 days	Thu 4/10/25	Wed 4/23/25																													
216	3.8.4.1	Historian Training Prep	8 days	Thu 4/10/25	Mon 4/21/25	214																												
217	3.8.4.2	QA/QC and Produce Training Material	1 day	Tue 4/22/25	Tue 4/22/25	216																												
218	3.8.4.3	Historian Training	1 day	Wed 4/23/25	Wed 4/23/25	217																												
Project: NBU HMI Replacement Date: Mon 5/22/23		Task		Project Summary		Manual Task		Start-only		Deadline																								
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