	Task Name
_	IceCube Phase 1 Upgrade Project
	Project Office
1.1	Project Management Project Administration
1.2	■ Annual Report
.1.2.1	Annual Report 1
1.1.1.2.2	Annual Report 2 Annual Report 3
1.1.1.2.4	Annual Report 4
1.1.1.2.5	Annual Report 5
1 1.1.1.3	Partnership Agreements (MoUs) Signed Project Execution Plan (PEP)
1.1.1.4.1	Project Execution Plan (PEP) 1
1.1 1.1.1.4.2	Project Execution Plan (PEP) 2
1.1 1.1.1.4.3 1.1 1.1.1.4.4	Project Execution Plan (PEP) 3 Project Execution Plan (PEP) 4
1.1 1.1.1.4.5	Project Execution Plan (PEP) 5
1.1 1.1.2	Project Controls
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1.1 1.1.2.1.2	Project Financial and EV Monthly Report
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1.1 1.1.2.1.2.4	Project Financial and EV Monthly Report 4 Project Financial and EV Monthly Report 4
1.1 1.1.2.1.2.5	Project Financial and EV Monthly Report 5
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1.1.2.1.2.60	Project Financial and EV Monthly Report 60
1.1.2.2	Subaward Management
1.1.2.2.1	Setup subagreements w US institutions Distributed Funding to Sub-Awardees
.1.2.2.2	Distributed Funding to Sub-Awardees Distributed Funding to Sub-Awardees 1
1.1.2.2.2.2	Distributed Funding to Sub-Awardees 2
1.1.2.2.2.3	Distributed Funding to Sub-Awardees 3 Distributed Funding to Sub-Awardees 4
1.1.2.2.2.4	Distributed Funding to Sub-Awardees 4 Distributed Funding to Sub-Awardees 5
1.1.2.2.3	■ Monthly Tracking
1.1.2.2.3.1	Monthly Tracking 1
1.1.2.2.3.2	Monthly Tracking 2 Monthly Tracking 3
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L2	WBS	Task Name	Q2	Q3	Q4	Q1 Q2	Q3	Q4	Q1	Q2	Q3 Q4	Q1	Q2	Q3 Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
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160 1.1 161 1.1		Financial Reporting Project Reviews																				
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169 1.1		Instrumentation Pre-Shipment Review												I						\longrightarrow		
170 1.1		Instrumentation Deployment Readiness Review																I				
171 1.1		Quality and Safety	-																			
72 1.1 73 1.1		Risk Management Document Control Systems																				
74 1.1		Project Engineering																				
75 1.1		System Engineering																			\rightarrow	
	1.1.4.1.1	System Engineering Support																				
77 1.1	1.1.4.1.2	Upgrade String Design Complete							I													
78 1.1	11/13	Configuration Management Plan																				
79 1.1	1.1.4.1.4	Configuration Management Process Implemented				b																
30 1.1		Production Management																				
1.1		Risk Management															_				$\overline{}$	
82 1.1		Reliability and Quality Assurance															_				$\overline{}$	
33 1.1		Polar Operations																				
84 1.1		Logistics																				
85 1.1		Antarctic Support Contractor																				
186 1.1		Environment, Health, and Safety																				
187 1.1		IDF is Delivered to Upgrade Project from ASC															-				+	
188 1.1		IDF and ICL Readied by ASC for Upgrade String Comissioning															-			\longrightarrow		
D891 11	1.1.6	Upgrade Project Completion Report																				

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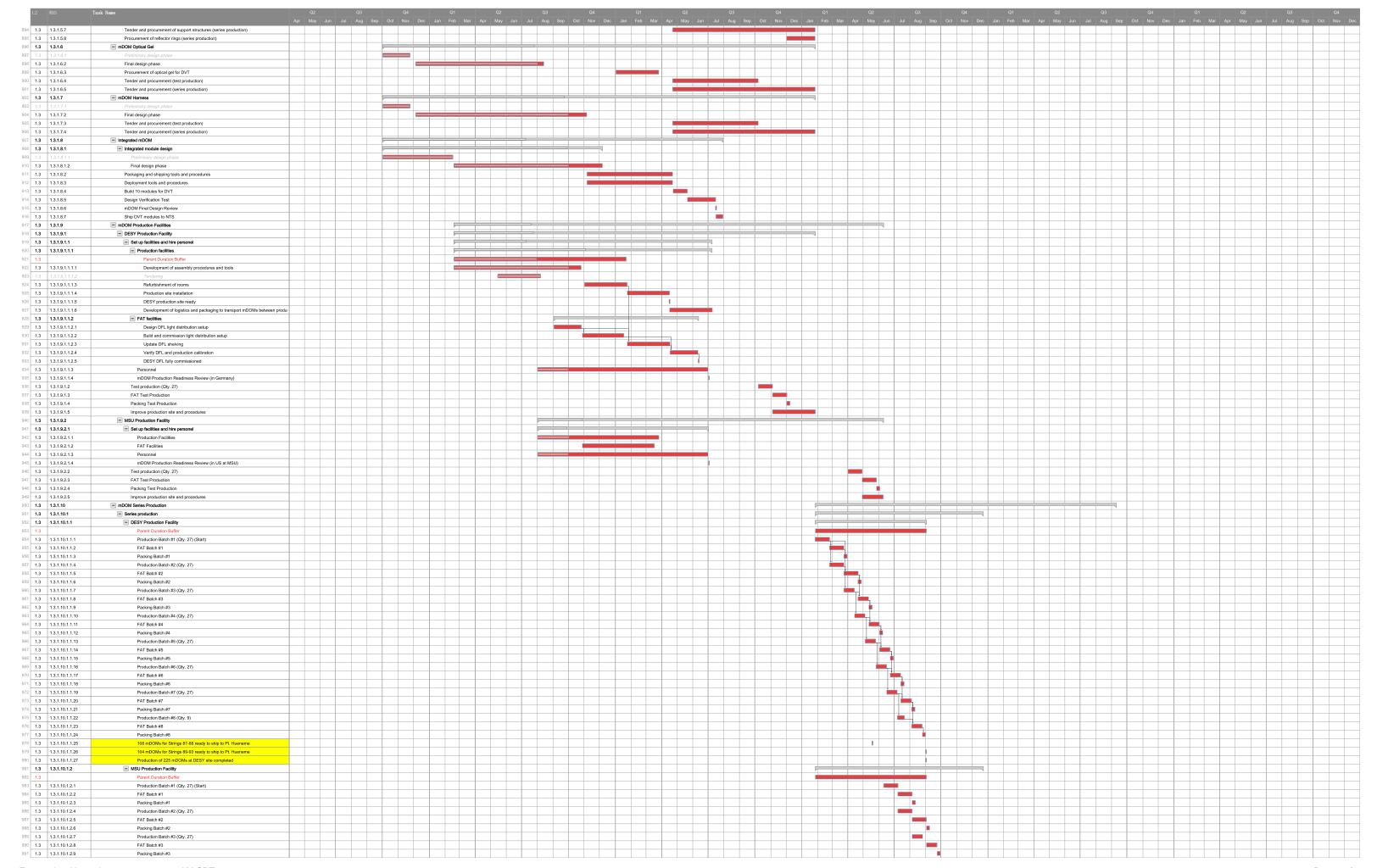
L2 WBS	Task Name	Q4	Q1 Q2	Q3	Q4 Q1	Q2 Q3	Q4	Q1 Q2	Q3 Q4	Q1 Q2	Q3 Q4 Q1 Q2
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199 1.2 1.2.1.2.4.2	Drill Readiness Review (PSL)									1	
201 1.2 1.2.1.2.6	Final Drill Completion Report										
208 1.2 1.2.1.4	- Travel										
219 1.2 1.2.2.1.3	Ship MHP Replacements & Spares (ComAir, Air-NPX) (2019)			<u> </u>							
221 1.2 1.2.2.1.5	Ship MHP Replacements & Spares (ComAir, Air-NPX) (2020)										
225 1.2 1.2.2.2.3	Ship PHS Replacements & Spares (ComAir, Air-NPX) (2020)						<u> </u>				
231 1.2 1.2.2.3.5	Fuel Tower: Final Design Review					1					
235 1.2 1.2.2.3.9 245 1.2 1.2.3.1.8	Ship Fuel Systems & Tower Components (VSL > ZCM, Air to NPX)										
254 1.2 1.2.3.2.8	Ship TOS Components & Spares (VSL-ZCM, Air-NPX) Ship Drill Heads, Spare Parts (ComAir-ZCM, Air-NPX, Store ICL)						<u> </u>				
262 1.2 1.2.3.3.7	Ship Cable/Hose Winches & Parts (VSL-ZCM, Air-NPX)						Driller_PSL_DirectHire, Drille	r PSI Lead			
267 1.2 1.2.3.4.4	Procurement - Down Payment (~20%)			0			1 5 110 5 50 50 50 110 110 110				
268 1.2 1.2.3.4.5	Procurement - Final Payment (Remainder), Ship to PSL					1					
272 1.2 1.2.3.4.9	Ship Drill Hose from PSL (Vessel-ZCM, Outdoor Storage ZCM)						1				
273 1.2 1.2.3.4.10	Ship Drill Hose from IVG (ComSur-CHC, Vessel-ZCM, Outdoor storage ZCM)										
284 1.2 1.2.3.5.9	Ship Spare Main Drill & Combo Cables (VSL-ZCM, Traverse-NPX)										
290 1.2 1.2.4.1.3	Control Systems - Preliminary Design Review			1							
292 1.2 1.2.4.1.5	Control Systems - Final Design Review				1						
322 1.2 1.2.4.9	Ship ALL Control Systems Components (ComAir, Air-NPX)								1		
323 1.2 1.2.4.10	Misc Components		Q								
332 1.2 1.2.5.1.7	GEN-1: Ship from PTH (VSL-ZCM, Traverse-NPX)			1							
339 1.2 1.2.5.2.6	GEN-2, 3, PDM - Ship Test Equip & Skis from PSL (Air/VSL-ZCM)										
341 1.2 1.2.5.2.8	GEN-2, 3, PDM - Ship Components, Repair Parts (ComAir-ZCM)										
342 1.2 1.2.5.3	■ ISO-3 Sled (Task removed - left here as place holder w/ Notes Intact)		N N								
343 1.2 1.2.5.3.1	ISO-3 Sled: Design Review & Custom Specification										
344 1.2 1.2.5.3.2	ISO-3 Sled: Final Design Review										
345 1.2 1.2.5.3.3	ISO-3 Sled: Procurement & Fabrication		PSL_Engineer PSL_Engineer								
346 1.2 1.2.5.3.4	ISO-3 Sled: Ship from vendor (Air-ZCM)		0								
351 1.2 1.2.5.4.4	System Elec Dist: Design Review										
354 1.2 1.2.5.4.7	System Elec Dist: Ship from PSL (VSL-ZCM, Air-NPX)						<u></u> !				
359 1.2 1.2.6.1.3	Ship WT Repair Parts, Replacements (2019) (ComAir, Air-NPX)			_							
361 1.2 1.2.6.1.5	Ship WT Repair Parts, Replacements (2020) (ComAir, Air-NPX)						Driller_PSL_Lead				
365 1.2 1.2.6.2.3 367 1.2 1.2.6.2.5	Ship Pump Repair/Replace Components (2019) (ComAir, Air-NPX) Ship Pump Repair/Replace Components (2020) (ComAir, Air-NPX)						Driller_PSL_Lead				
376 1.2 1.2.6.3.8	Ship Filtration Components (VSL-ZCM, Air-NPX)						Dilliet_F 3L_Lead				
381 1.2 1.2.6.4.4	Ship Interconnects Parts, Spares (ComSur, ZCM, Air-NPX)						<u> </u>				
387 1.2 1.2.6.5.5	Ship MDS Internal Hoses, Spares (ComSur, ZCM, Air-NPX)						1				
392 1.2 1.2.6.6.4	Ship ARA Drill Subsystem Parts (VSL-ZCM, Fly-NPX)										
399 1.2 1.2.7.1.5	Ship IFD to McMurdo (VSL-ZCM, Traverse-NPX)				ı						
406 1.2 1.2.7.3.3	Ship Shop Parts, Spares, Etc. (VSL-ZCM, Air-NPX)						1				
417 1.2 1.2.7.5.3	Ship 287B, 4 Snowmobiles, 4 Sleds			4							
427 1.2 1.2.8.1.5	2018-19 Season Readiness Review	0									
428 1.2 1.2.8.1.6	2019-20 Season Readiness Review			0							
429 1.2 1.2.8.1.7	2020-21 Season Readiness Review						1				
430 1.2 1.2.8.1.8	2021-22 Season Readiness Review										
431 1.2 1.2.8.1.9	2022-23 Season Readiness Review										I I
441 1.2 1.2.8.2.3.1	Recon Team Arrives at NPX (18/19 Season)	0									
451 1.2 1.2.8.2.4	NPX Activities Complete (18/19 Season)	0									
460 1.2 1.2.8.3.2	START NPX 2019/20 Season - Team (8) Arrives [ReC/Fire/Life Safety]				1						
464 1.2 1.2.8.3.4.1	EHWD Air Shipment Arrives, Upgrade Parts				1						
478 1.2 1.2.8.3.6	END NPX 2019/20 Season										
487 1.2 1.2.8.3.7.6	IFD: Arrival (from PSL) & Storage in McMurdo						1				
493 1.2 1.2.8.4.2 498 1.2 1.2.8.4.3.4	START NPX 2020/21 Season - Team (8) Arrives [Replace/Repair]						1				
524 1.2 1.2.8.4.3.16	Receive Air Shipment of EHWD Upgrade Parts - Independent Firn Drill						· · · · · ·				
525 1.2 1.2.8.4.3.16.1	IFD - Traverse ZCM > NPX - Arrival & Store at NPX										
530 1.2 1.2.8.4.5	END NPX 2020/21 Season							1			
532 1.2 1.2.8.4.6.1	Filtration/Degassing Components: Arrive McMurdo										
533 1.2 1.2.8.4.6.2	Fuel Systems & Tower Components: Arrive McMurdo (from PSL)							1			
534 1.2 1.2.8.4.6.3	Generators & PDM										
536 1.2 1.2.8.4.6.3.1	ISO-3 Sled Arrives in ZCM										
540 1.2 1.2.8.4.6.4	■ Tower Operations Structures (TOS and Tower)										
541 1.2 1.2.8.4.6.4.1	TOS/Tower Components: Arrival & Storage in ZCM							l e			
542 1.2 1.2.8.4.6.4.2	Reels: Arrive and Stored in ZCM										
543 1.2 1.2.8.4.6.4.3	Combo & Drill Cables: Arrival & Storage in ZCM										
544 1.2 1.2.8.4.6.4.4	DOM Holding Structure: Arrives ZCM										
545 1.2 1.2.8.4.6.5	- ARA Drill										
546 1.2 1.2.8.4.6.5.1	ARA Drill Components: Arrive ZCM										
551 1.2 1.2.8.5.2	START NPX 2021/22 Season - Team (15) Arrives [Comm/WTst/FirnDr]								1		
556 1.2 1.2.8.5.3.4	Receive Air Shipment of EHWD Upgrade Parts								I		
575 1.2 1.2.8.5.3.12	Winches & Reels									Antoretic Super d Contactor	
576 1.2 1.2.8.5.3.12.1	Reels: Fly & Arrive at NPX									Antarctic Support Contractor	
581 1.2 1.2.8.5.3.14.1 583 1.2 1.2.8.5.3.14.3	TOS/Tower Components: Fly & Arrive at NPX Drill Heads Arrive at NPX (Store in ICL)									Antarctic Support Contractor Antarctic Support Contractor	
586 1.2 1.2.8.5.3.14.3 586 1.2 1.2.8.5.3.15.1	Drill Heads Arrive at NPX (Store in ICL) Cargo Arrival: Computers, Motor Drives, All Hardware								1	zantarono oupport correactor	
618 1.2 1.2.8.5.3.15.1 618 1.2 1.2.8.5.7	Cargo Arrival: Computers, Motor Drives, All Hardware END NPX 2021/22 Season								1		
623 1.2 1.2.8.5.8.1.2	Fuel Tower: Fly to & Arrive NPX										
625 1.2 1.2.8.5.8.2.1	ARA Drill Components: Air ZCM > NPX								1		
626 1.2 1.2.8.5.8.2.2	Filtration / Degassing: Fly & Arrive ZCM-NPX								1		
627 1.2 1.2.8.5.8.2.3	Spare Drill Cable, Combo Cable: Fly & Arrive ZCM-NPX, Store NPX								- 		
628 1.2 1.2.8.5.8.2.4	DOM Holding Structure: Fly & Arrive at NPX										
629 1.2 1.2.8.5.8.2.5	Drill Hose: Arrival & Winter Storage in ZCM (Heated)										
635 1.2 1.2.8.6.2	START NPX 2022/23 Season - Team (30) Arrives [Drilling/Installation]										1
637 1.2 1.2.8.6.4	Drill Hose - Air ZCM to NPX (DNDF) - Mission Critical!										Antarctic Support Contractor

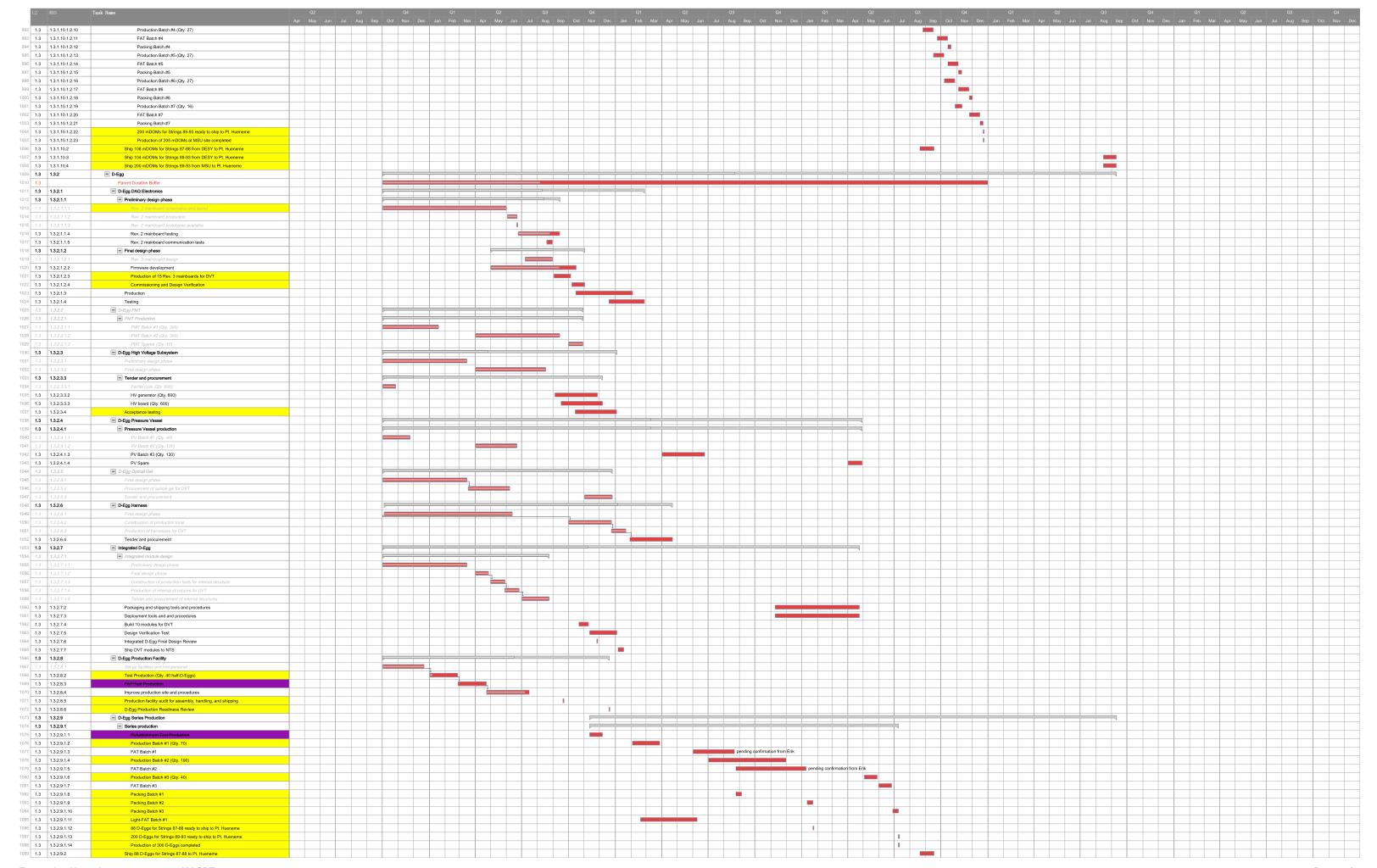
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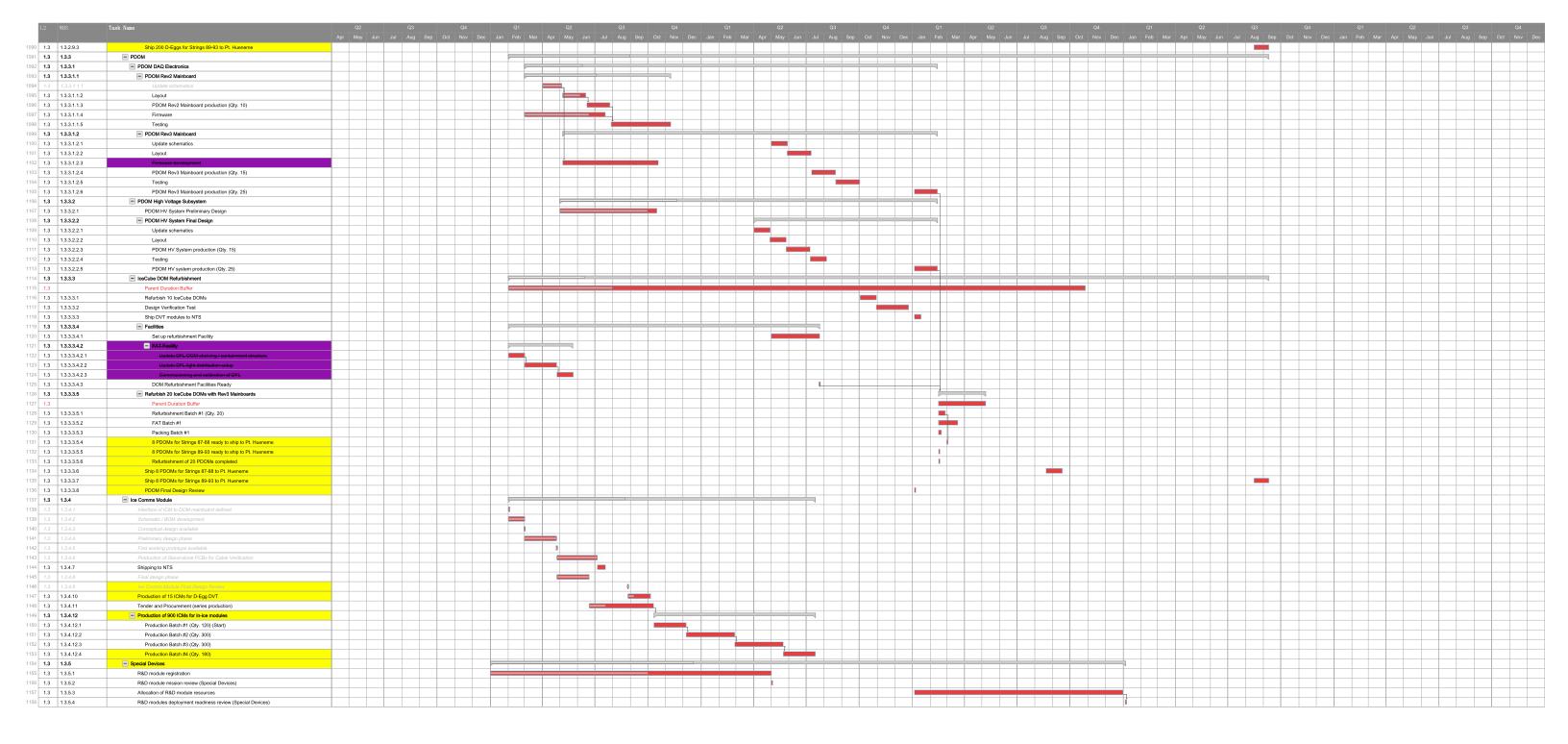
L2 WBS	Task Name	Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3					Q4 Q1			Q2	Q	3	Q4	Q1		Q2	Q3	Q4		Q1	Q2					
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645 1.2 1.2.8.6.5.6.1	Generators: Relocated from NPX Winter Storage to SES																						I Ar	ntarctic Suppor	(Contractor	
346 1.2 1.2.8.6.5.6.2	Generators: Charge Generator Batteries																						I Ar	ntarctic Suppor	Contractor	
1.2 1.2.8.6.5.6.4	Generators Ready																						1			
552 1.2 1.2.8.6.5.9	Provide 953 Loader, 287B Skidsteer, Pax Van, Snomo's																						I An	tarctic Support	Contractor	
665 1.2 1.2.8.6.5.22	SES Ready for Drilling - (On Ice Final Readiness Assessment)																							T		
880 1.2 1.2.8.6.6.13	TOS1/Tower1 Site Ready for Drilling																						- 1			
886 1.2 1.2.8.6.7.5	TOS2/Tower2 in Position & Heated																							I		
90 1.2 1.2.8.6.8.3	String # 1 Deployed & Complete																							1		
98 1.2 1.2.8.6.8.11	String # 2 Deployed & Complete																							- 1		
06 1.2 1.2.8.6.8.19	String # 3 Deployed & Complete																							- 1		
14 1.2 1.2.8.6.8.27	String # 4 Deployed & Complete																									
22 1.2 1.2.8.6.8.35	String # 5 Deployed & Complete																							I I		
30 1.2 1.2.8.6.8.43	String # 6 Deployed & Complete																							1		
38 1.2 1.2.8.6.8.51	String # 7 Deployed & Complete																							1		
40 1.2 1.2.8.6.8.53	Drilling & Installation Complete																							1		
52 1.2 1.2.8.6.10	NPX Activities Complete (22/23 Season)																								1	
63 1.2 1.2.9.3.3	Ship Installation Support Mats (VSL-PTH, Fly & Arrive at NPX)										l l															
67 1.2 1.2.9.3.7	Ship DOM Handling Structure (VSL-ZCM, Fly & Arrive at NPX)										1															

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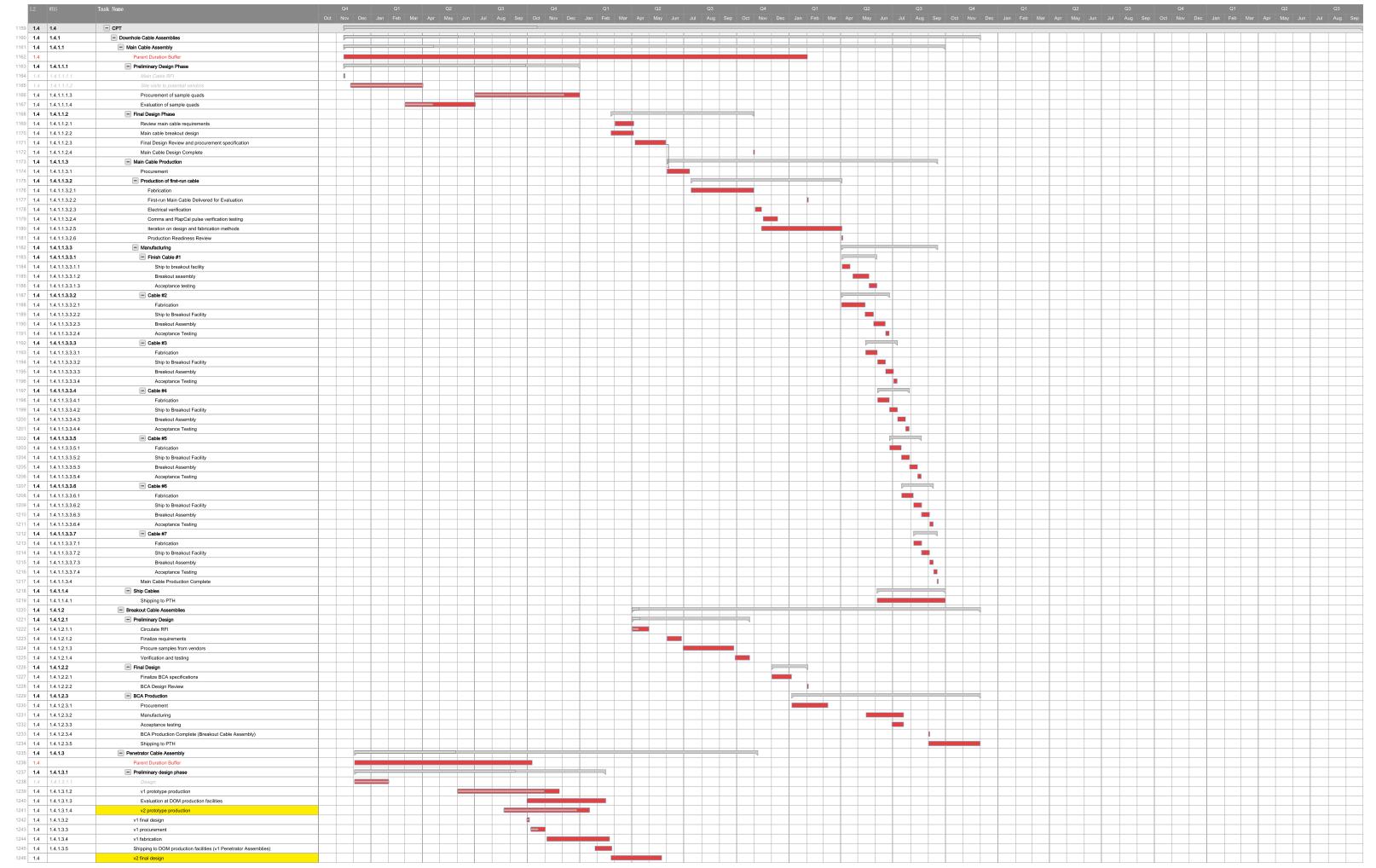






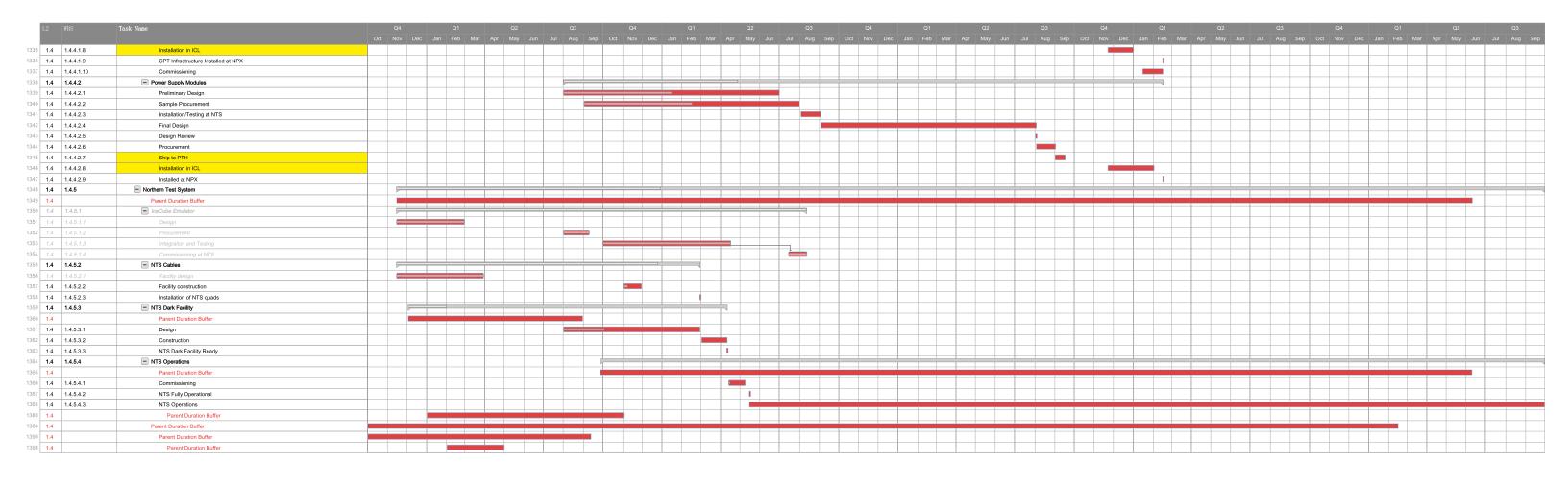


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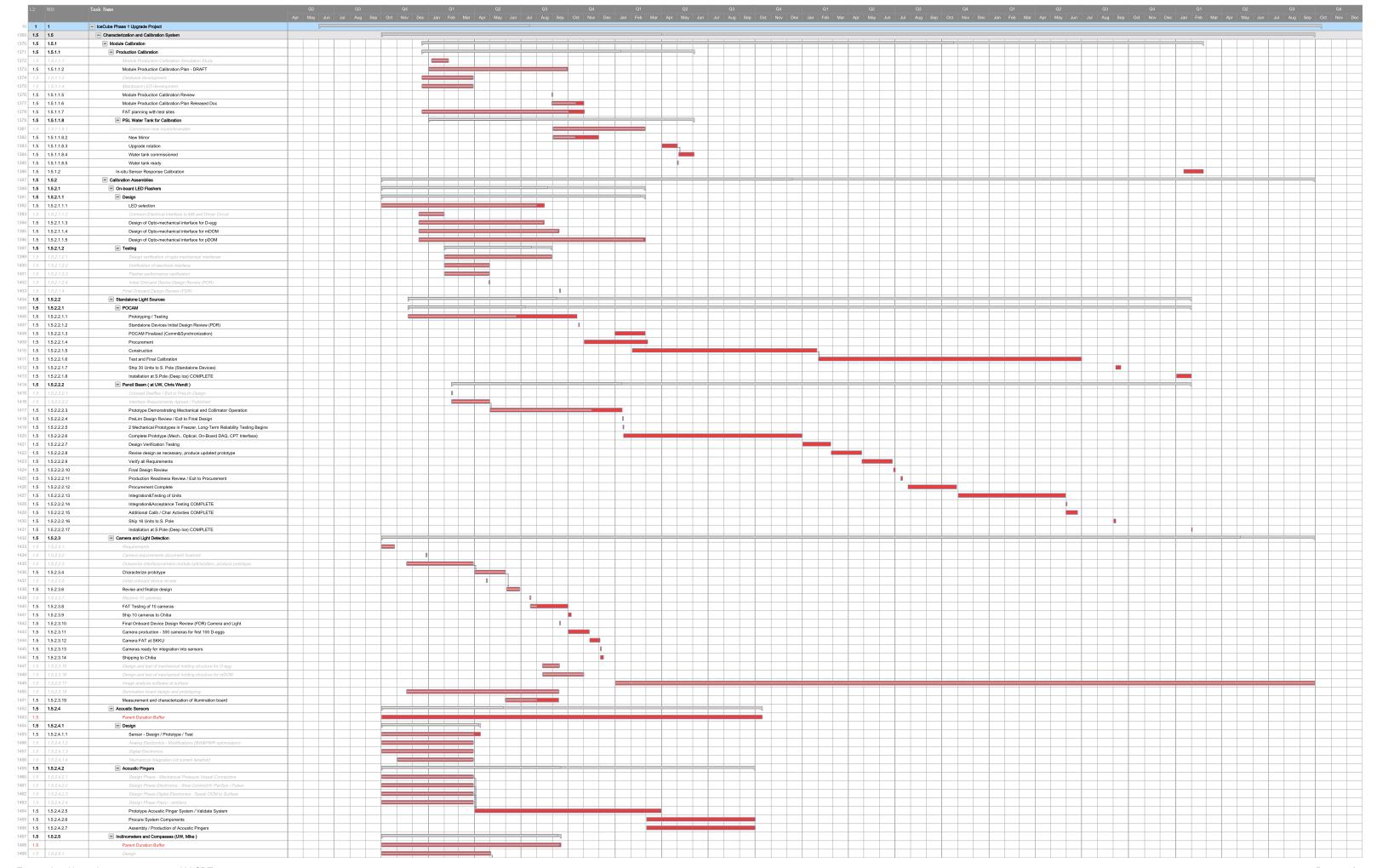




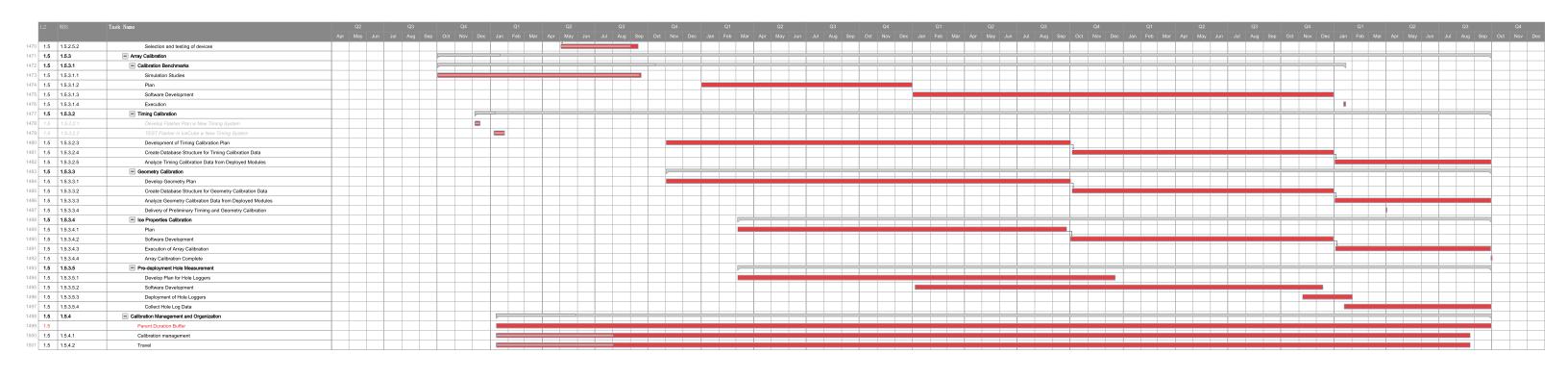
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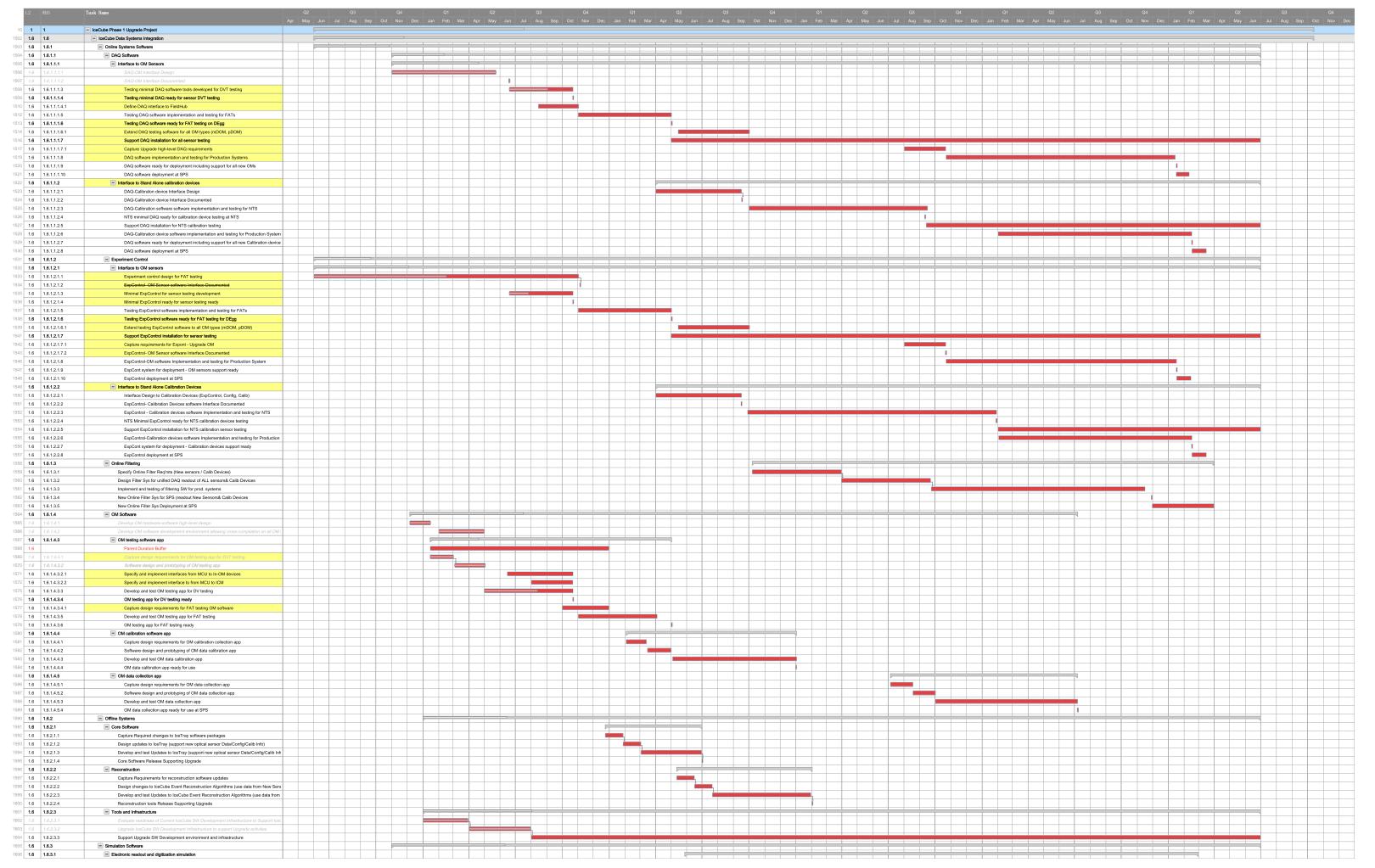
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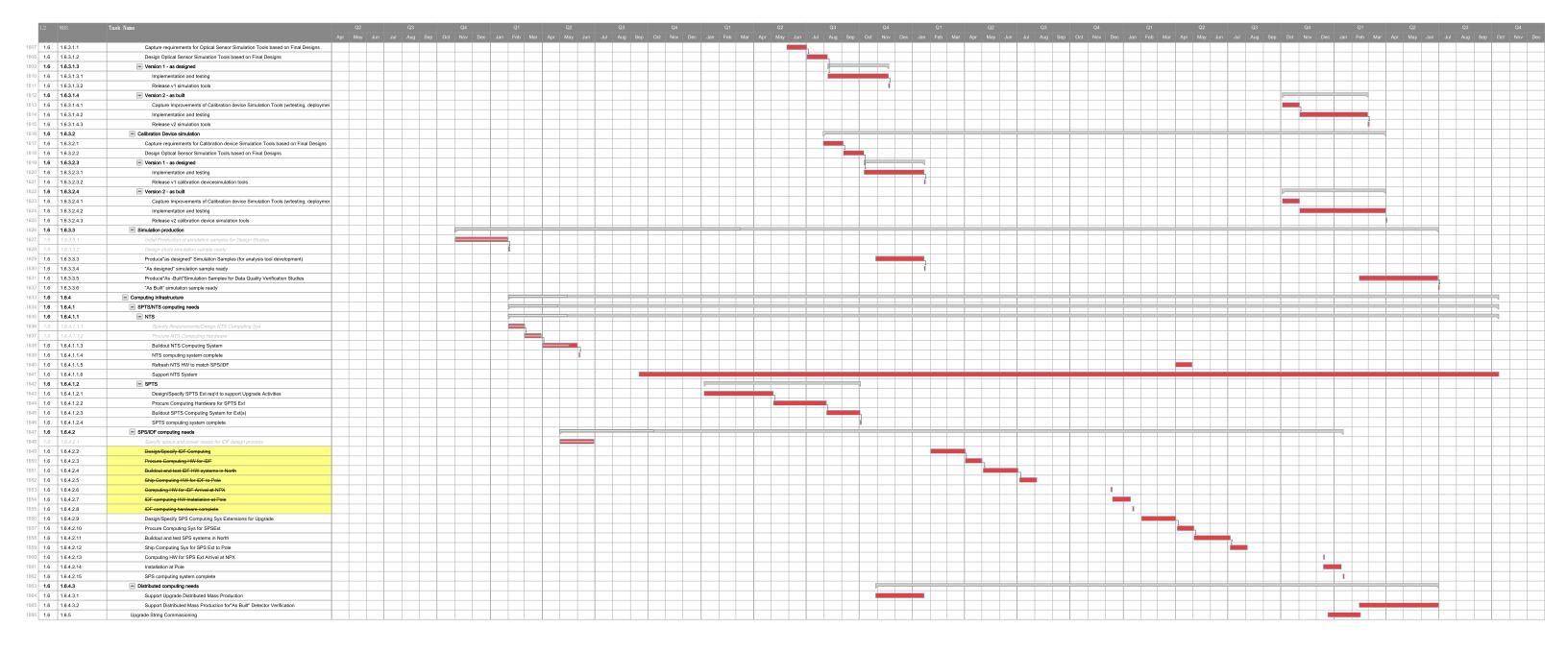


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