

Bartow 4C wound core Brener		WBS view					2021					01-Jul-21 14:51
Activity ID	Activity Name	Total Float	Original Duration	Start	Finish	Calendar	Jul	Aug	Sep	Oct	Nov	
Bartow 4C wound core Brener												
Duke Power Bartow Gen 4C wound core replacement												
100000	Duke Power Issue Letter of Intent for Generator 4C Wound Core Replacement		336	13-Jun-21 00:00A	14-Jun-21 00:00A	O-Z						
100005	Duke Power Issue Purchase Order for Generator 4C Wound Core Replacement		48	14-Jun-21 00:00A	14-Jun-21 07:00A	O-Z						
Mobilize Bartow for harvesting 4A and 4C components												
100010	Siemens Mobilize Bartow to Harvest Winding Cones and Finger Plates		240	16-May-21 07:00A	20-May-21 00:00A	O-Z						
100015	Prep & Ship Generator Rotor to Siemens Charlotte for Inspections and Rewind		72	18-May-21 00:00A	22-May-21 07:00A	O-Z						
100030	Cut Generator 4C Winding and to Harvest Winding Cones		168	26-May-21 07:00A	02-Jun-21 07:00A	O-Z						
100020	Remove Generator 4C Enclosure Roof for Winding Cones Removal		168	06-Jun-21 07:00A	13-Jun-21 07:00A	O-Z						
100025	Remove Generator Stator Frame Cover for Repair and Harvesting Activities		6	07-Jun-21 07:00A	07-Jun-21 13:00A	O-Z						
100080	Disassemble & Remove Generator Air Coolers for Cleaning Activities		72	08-Jun-21 00:00A	10-Jun-21 00:00A	O-Z						
100040	Rig & Remove Generator Winding Cone Assemblies (2)		168	08-Jun-21 07:00A	15-Jun-21 07:00A	O-Z						
100050	Remove TE and CE Finger Plates for Reconditioning		168	08-Jun-21 07:00A	15-Jun-21 07:00A	O-Z						
100070	Ship Harvested Wound Core Components to Siemens Charlotte for Refurbishment		168	09-Jun-21 07:00A	11-Jun-21 07:00A	O-Z						
100045	Ship Main and Neutral Lead to Ft Payne for Refurbishment		72	10-Jun-21 00:00A	10-Jun-21 07:00A	O-Z						
100060	Rig & Install 4C Generator Enclosure Roof for Weather Protection		168	11-Jun-21 07:00A	18-Jun-21 07:00A	O-Z						
100090	Ship Generator Air Coolers to Rofin for Inspections and Cleaning		72	14-Jun-21 00:00A	14-Jun-21 07:00A	O-Z						
100095	Ship Generator Stator Frame Cover to Specialty Fab for Repairs		24	14-Jun-21 07:00A	15-Jun-21 07:00A	O-Z						
100100	Demob 4C Generator after Harvesting and Inspection Activities		72	16-Jun-21 07:00A	18-Jun-21 07:00A	O-Z						
Siemens Charlotte and Ft. Payne wound core Procurement and Manufacturing												
200000	PO received for Bartow Project		1	14-Jun-21 06:00A	14-Jun-21 07:00A	O-Z						
200004	Procure Copper for Ft Payne parallel ring manufacturing	0	1344	14-Jun-21 07:00A	08-Jul-21 07:00	O-Z						
200003	Manufacture Core Iron for Wound Core Manufacturing	312	504	15-Jun-21 07:00A	07-Jul-21 07:00	O-Z						
200010	Receive and Inspect Core Iron Charlotte	312	24	16-Jun-21 07:00A	01-Jul-21 07:00	O-Z						
200008	Recondition Generator Finger Plates for Wound Core Assembly		336	16-Jun-21 07:00A	17-Jun-21 07:00A	O-Z						
200002	Siemens Charlotte & Ft Payne Order Materials for Replacement Wound Core Manufacturing		24	16-Jun-21 07:00A	17-Jun-21 07:00A	O-Z						
200015	Receive & Inspect End Plates and Finger Plates Siemens Charlotte		48	17-Jun-21 07:00A	18-Jun-21 07:00A	O-Z						
200020	Stack Core Iron for Wound Core	312	672	22-Jun-21 07:00A	14-Jul-21 07:00	O-Z						
200005	Manufacture coils	120	840	01-Jul-21 07:00	05-Aug-21 07:00	O-Z						
200007	Manufacture new parallel rings and refurbish cones	0	696	08-Jul-21 07:00	06-Aug-21 07:00	O-Z						
500320	Perform core loop test	312	672	14-Jul-21 07:00A	21-Jul-21 07:00	O-Z						
200030	Prepare Generator Wound Core for Winding Installation	312	96	21-Jul-21 07:00	25-Jul-21 07:00	O-Z						
200040	Receive and Inspect Bottom Coils Siemens Charlotte	120	24	05-Aug-21 07:00	06-Aug-21 07:00	O-Z						
500310	Ship parallel ring assemblies and winding cones to Charlotte	0	24	06-Aug-21 07:00	07-Aug-21 07:00	O-Z						
200025	Install Winding Cone Assemblies	0	96	07-Aug-21 07:00	11-Aug-21 07:00	O-Z						
200045	Wind Bottom Coils	0	298	11-Aug-21 07:00	23-Aug-21 17:00	O-Z						
200050	Install & Wind Top Coils	0	298	23-Aug-21 17:00	05-Sep-21 03:00	O-Z						
200060	Install Wound Core Slot Wedges	1131	72	05-Sep-21 03:00	08-Sep-21 03:00	O-Z						
200070	Electrically Connect Turbine End Winding	1131	72	05-Sep-21 03:00	08-Sep-21 03:00	O-Z						
200075	Electrically Connect Collector End Winding	0	72	05-Sep-21 03:00	08-Sep-21 03:00	O-Z						
200080	Electrically Test Wound Core Assembly	0	48	08-Sep-21 03:00	10-Sep-21 03:00	O-Z						
200085	GVPI Completed Wound Core Assembly	0	124	10-Sep-21 03:00	15-Sep-21 07:00	O-Z						
200090	Remove Completed Wound Core from GVPI for Final Assembly Activities	0	48	15-Sep-21 07:00	17-Sep-21 07:00	O-Z						
200095	Install Flux Probe	0	48	17-Sep-21 07:00	19-Sep-21 07:00	O-Z						
200100	Electrically Test Completed Wound Core after GVPI	0	48	19-Sep-21 07:00	21-Sep-21 07:00	O-Z						
200105	Prep Completed Wound Core for Shipping	0	48	21-Sep-21 07:00	23-Sep-21 07:00	O-Z						
200110	Load Completed Wound Core into Shipping Frame for Rail Transport to Bartow	0	24	23-Sep-21 07:00	24-Sep-21 07:00	O-Z						
200115	Load Shipping Frame onto Rail Car and Secure	0	48	24-Sep-21 07:00	26-Sep-21 07:00	O-Z						
200120	Rail Inspection Wound Core to Bartow	0	24	26-Sep-21 07:00	27-Sep-21 07:00	O-Z						
200125	Wound Core Pulled from Siemens Charlotte for Transport to Bartow	0	24	27-Sep-21 07:00	28-Sep-21 07:00	O-Z						

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Activity ID	Activity Name	Total Float	Original Duration	Start	Finish	Calendar	2021				
							Jul	Aug	Sep	Oct	Nov
200130	Wound Core Depart Pineville to Duke Power Bartow (7 to 10 Days)	0	240	28-Sep-21 07:00	08-Oct-21 07:00	O-Z-					Wound Core Depart Pineville
Siemens Charlotte rotor inspections and rewind											
200200	Siemens Charlotte Receive and Inspect Bartow 4C Generator Rotor		48	20-May-21 07:00 A	22-May-21 07:00 A	O-Z-					08-Sep-21 00:00, Siemens Charlotte rotor inspections
200210	Remove Generator Rotor Retaining Rings		48	16-Jun-21 07:00 A	17-Jun-21 07:00 A	O-Z-					
200220	Remove Generator Rotor Winding for Coil Reconditioning in Ft Payne		120	18-Jun-21 07:00 A	22-Jun-21 07:00 A	O-Z-					
200230	Ship Generator Rotor Coil Assembled to Siemens Ft Payne for Refurbishment		48	22-Jun-21 07:00 A	23-Jun-21 07:00 A	O-Z-					
200240	Siemens Ft Payne Refurbish Generator Rotor Coils	1446	504	23-Jun-21 07:00 A	14-Jul-21 07:00	O-Z-					
200250	Siemens Charlotte Inspect and NDE Generator Rotor Forging	1830	48	01-Jul-21 07:00	03-Jul-21 07:00	O-Z-					
200260	NDE Inspect and Requalify Generator Rotor Retaining Rings	2166	48	01-Jul-21 07:00	03-Jul-21 07:00	O-Z-					
200245	Siemens Ft Payne Prep & Ship Generator Rotor Coils	1446	48	14-Jul-21 07:00	16-Jul-21 07:00	O-Z-					
200270	Siemens Charlotte Receive and Inspect Generator Rotor Coils from Ft Payne	1446	72	16-Jul-21 07:00	19-Jul-21 07:00	O-Z-					
200280	Install Generator Rotor Winding	1446	336	19-Jul-21 07:00	02-Aug-21 07:00	O-Z-					
200290	Install Generator Rotor Retaining Rings	1446	48	02-Aug-21 07:00	04-Aug-21 07:00	O-Z-					
200300	Generator Rotor Electrical Testing	1446	24	04-Aug-21 07:00	05-Aug-21 07:00	O-Z-					
200310	Generator Rotor Seasoning & High Speed Balance	1446	72	05-Aug-21 07:00	08-Aug-21 07:00	O-Z-					
200320	Siemens Charlotte Prep Generator Rotor for Shipping to Bartow 4C	1446	48	08-Aug-21 07:00	10-Aug-21 07:00	O-Z-					
200330	Siemens Charlotte Ship Generator Rotor to Bartow 4C	805	48	06-Sep-21 00:00	08-Sep-21 00:00	O-Z-					
Generator components subcontractor off site repairs and inspections											
Rofin											
200450	Rofin Receive & Inspect Generator Air Coolers		48	14-Jun-21 07:00 A	16-Jun-21 07:00 A	O-Z-					14-Jul-21 07:00, Generator components subcontractor off site repairs and inspections
200460	Rofin Prep & Vat Clean Generator Air Coolers	1890	168	01-Jul-21 07:00	08-Jul-21 07:00	O-Z-					12-Jul-21 19:00, Rofin
200470	Siemens Engineer Inspect Bartow Air Coolers after Rofin Cleaning	1890	12	08-Jul-21 07:00	08-Jul-21 19:00	O-Z-					
200480	Rofin Prep Generator Air Coolers for Shipping to Duke Bartow	1890	48	08-Jul-21 19:00	10-Jul-21 19:00	O-Z-					
200490	Rofin Ship Generator Air Coolers to Duke Bartow	1890	48	10-Jul-21 19:00	12-Jul-21 19:00	O-Z-					
Specialty											
200400	Specialty Fabrication Receive & Inspect Generator Stator Frame Cover		12	14-Jun-21 07:00 A	14-Jun-21 19:00 A	O-Z-					14-Jul-21 07:00, Specialty
200410	Specialty Fab Repair Generator Stator Frame Cover	2287	240	01-Jul-21 07:00	11-Jul-21 07:00	O-Z-					
200420	Special Fab NDE Generator Stator Frame Cover Repairs and Welds	2287	12	11-Jul-21 07:00	11-Jul-21 19:00	O-Z-					
200430	Special Fab Paint Generator Stator Frame Cover	2287	12	11-Jul-21 19:00	12-Jul-21 07:00	O-Z-					
200440	Special Fab Prep and Ship Generator Stator Frame Cover to Bartow	2287	48	12-Jul-21 07:00	14-Jul-21 07:00	O-Z-					
Generator enclosure roof removal and modification											
300000	Contract CPG for Generator Enclosure Roof Panel Design & Fabrications	1380	24	01-Jul-21 07:00	02-Jul-21 07:00	O-Z-					04-Sep-21 12:00, Generator enclosure roof removal and
300010	CPG Procure Materials for Generator Enclosure & Iso Phase Mounting Plate Fabrication	1380	240	02-Jul-21 07:00	12-Jul-21 07:00	O-Z-					
300020	CPG Fabricate Generator Enclosure Roof Panels and Iso Phase Mounting Plate	1380	336	12-Jul-21 07:00	26-Jul-21 07:00	O-Z-					
300025	Prep and Ship Generator Roof Components to Duke Bartow for Installation	1380	72	26-Jul-21 07:00	29-Jul-21 07:00	O-Z-					
300030	Receive and Inspect Generator Enclosure Roof Panels and Iso Bus Mounting Plate Bartow 4C	1380	12	29-Jul-21 07:00	29-Jul-21 19:00	O-Z-					
300040	Unbolt & Remove Existing Roof Panels for New Roof Installation Activities	631	12	30-Aug-21 00:00	30-Aug-21 12:00	O-Z-					
300050	Rig & Position Generator Enclosure Roof Panels for Hold Down Bolt Hole Layout	631	12	30-Aug-21 12:00	31-Aug-21 00:00	O-Z-					
300060	Layout Generator Enclosure Hold Down Bolt Holes	631	24	31-Aug-21 00:00	01-Sep-21 00:00	O-Z-					
300070	Rig & Remove Generator Enclosure Roof Panels after Bolt Hole Layout	631	12	01-Sep-21 00:00	01-Sep-21 12:00	O-Z-					
300080	Drill Generator Enclosure Roof Beam Holes for Replacement Roof Panels	631	48	01-Sep-21 12:00	03-Sep-21 12:00	O-Z-					
300090	Test Fit Roof Panels after Roof Beam Hole Drilling	631	12	03-Sep-21 12:00	04-Sep-21 00:00	O-Z-					
300100	Temporary Roof Panel Installation for Generator Enclosure Weather Protection	631	12	04-Sep-21 00:00	04-Sep-21 12:00	O-Z-					
Generator wound core removal											
400000	****Mobilize Rigging Contractor & Siemens for Wound Core Rigging Removal	313	168	30-Aug-21 00:00*	06-Sep-21 00:00	O-Z-					27-Sep-21 08:00, Generator wound c
400030	Barnhart Receive Rigging Components for Gantry Erection Activities	313	72	06-Sep-21 00:00	09-Sep-21 00:00	O-Z-					
400015	Prep (FME) Existing Wound Core for Spring Bar Attachment Weld Removal	641	6	06-Sep-21 00:00	06-Sep-21 06:00	O-Z-					
400010	Erect Scaffolding for Generator Roof Panel Removal Activities	547	48	06-Sep-21 00:00	08-Sep-21 00:00	O-Z-					
400005	Receive & Inspect Generator Stator Frame Cover from Specialty Fab	998	24	06-Sep-21 00:00	07-Sep-21 00:00	O-Z-					
400006	Receive & Inspect Generator Stator Air Coolers	565	24	06-Sep-21 00:00	07-Sep-21 00:00	O-Z-					
400016	Grind and Remove Core to Spring Bar Attachment Welds	641	48	06-Sep-21 06:00	08-Sep-21 06:00	O-Z-					

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Activity ID	Activity Name	Total Float	Original Duration	Start	Finish	Calendar	2021				
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400009	Rig & Install Generator Stator Air Coolers & Piping	565	12	07-Sep-21 00:00	07-Sep-21 12:00	O-Z-					
400020	Siemens Remove Roof Panels for Generator Wound Core Removal	547	6	08-Sep-21 00:00	08-Sep-21 06:00	O-Z-					
400007	Receive & Inspect Generator Rotor Bartow	805	24	08-Sep-21 00:00	09-Sep-21 00:00	O-Z-					
400017	Engineer Inspect Core to Frame Attachment Welds are Removed and Core is Free to Lift	641	2	08-Sep-21 06:00	08-Sep-21 08:00	O-Z-					
400040	Bamhart Ground Preparations and Pre Gantry Assembly Activities	313	168	09-Sep-21 00:00	16-Sep-21 00:00	O-Z-					
400050	Assemble and Set Gantry Bases and Towers	313	48	16-Sep-21 00:00	18-Sep-21 00:00	O-Z-					
400060	Rig & Install Gantry Girder Assemblies	313	48	18-Sep-21 00:00	20-Sep-21 00:00	O-Z-					
400070	Rig & Assemble Gantry Hoist Assembly	313	24	20-Sep-21 00:00	21-Sep-21 00:00	O-Z-					
400080	Operational Verify Gantry Operations	313	6	21-Sep-21 00:00	21-Sep-21 06:00	O-Z-					
400090	Install Rigging onto Hoist	313	12	21-Sep-21 06:00	21-Sep-21 18:00	O-Z-					
400095	Position SPMT (Goldhoffer) for Wound Core Removal	313	6	21-Sep-21 18:00	22-Sep-21 00:00	O-Z-					
400100	Bamhart Rig & Remove Damaged Wound Core	313	12	22-Sep-21 00:00	22-Sep-21 12:00	O-Z-					
400120	Clean & Inspect Generator Stator Frame Base	313	48	22-Sep-21 12:00	24-Sep-21 12:00	O-Z-					
400105	Prepare Generator Stator Frame Base Spring Bars for Wound Core Installation	367	12	22-Sep-21 12:00	23-Sep-21 00:00	O-Z-					
400110	Secure Damaged Wound Core to SPMT and Transport to Storage Area on site	756	6	22-Sep-21 12:00	22-Sep-21 18:00	O-Z-					
400115	****Bamhart Demobilize Personnel after Wound Core Removal and Storage Activities****	756	24	22-Sep-21 18:00	23-Sep-21 18:00	O-Z-					
400130	Remove Core Seals Generator Stator Frame Base	313	12	24-Sep-21 12:00	25-Sep-21 00:00	O-Z-					
400140	Paint Generator Stator Frame Base	313	6	25-Sep-21 00:00	25-Sep-21 06:00	O-Z-					
400150	Install New Generator Stator Frame Base Core Seals	313	24	25-Sep-21 06:00	26-Sep-21 06:00	O-Z-					
400160	Install New Generator Stator Frame Cover Core Seals	313	24	26-Sep-21 06:00	27-Sep-21 06:00	O-Z-					
400170	Siemens Engr Final Inspect Gen Stator Frame Base and Cover for Installation Activities	313	2	27-Sep-21 06:00	27-Sep-21 08:00	O-Z-					
Generator wound core installation and stator assembly activities											
500010	Obtain Permits for Generator Wound Core Transit from Rail Siding to Bartow Plant	779	24	06-Sep-21 00:00	07-Sep-21 00:00	O-Z-					
500006	Set Generator Rotor onto Installation Skid and Environmentally Protect from Weather	805	6	09-Sep-21 00:00	09-Sep-21 06:00	O-Z-					
500000	****Remobilize Bartow for Generator 4C Wound Core Installation	148	168	24-Sep-21 07:00*	01-Oct-21 07:00	O-Z-					
500005	Install and Position Installation Skid for Generator Rotor Installation	270	6	01-Oct-21 07:00	01-Oct-21 13:00	O-Z-					
500015	Bamhart Erect Hydraulic Gantry Bartow Rail Siding	148	12	01-Oct-21 07:00	01-Oct-21 19:00	O-Z-					
500030	Assemble SPMT at Rail Siding for Generator Transport	148	12	01-Oct-21 19:00	02-Oct-21 07:00	O-Z-					
500020	Remove Rail Car Frame Shipping Attachments	0	4	08-Oct-21 07:00	08-Oct-21 11:00	O-Z-					
500040	Off Load Generator Stator Frame from Rail Car	0	24	08-Oct-21 11:00	09-Oct-21 11:00	O-Z-					
500050	Transport Generator Frame from Rail Siding to Bartow	0	4	09-Oct-21 11:00	09-Oct-21 15:00	O-Z-					
500055	Siemens Receive and Inspect Generator Stator Frame & Wound Core for Installation	0	6	09-Oct-21 15:00	09-Oct-21 21:00	O-Z-					
500060	Remove Shipping Covers and from Generator Stator Frame and Wound Core	0	6	09-Oct-21 21:00	10-Oct-21 03:00	O-Z-					
500070	Position Generator Frame & Wound Core for Rigging & Installation	0	6	10-Oct-21 03:00	10-Oct-21 09:00	O-Z-					
500080	Rig & Install Replacement Wound Core	0	48	10-Oct-21 09:00	12-Oct-21 09:00	O-Z-					
500090	Engineer Verify that Core Seals are Not Obstructing Radial Vents Adjust As Required	0	6	12-Oct-21 09:00	12-Oct-21 15:00	O-Z-					
500100	Install Generator Stator Protection Mat and Skid Pan	0	4	12-Oct-21 15:00	13-Oct-21 19:00	O-Z-					
500120	Rig & Install Generator Rotor	0	6	12-Oct-21 19:00	13-Oct-21 01:00	O-Z-					
500150	Support Gen Rotor & Install Turbine End Lower Half Bearing	0	6	13-Oct-21 01:00	13-Oct-21 07:00	O-Z-					
500160	Lower Turbine End of Generator Rotor into TE Lower Half Bearing	0	2	13-Oct-21 07:00	13-Oct-21 09:00	O-Z-					
500140	Rig & Remove Gen Rotor Installation Tooling	0	3	13-Oct-21 09:00	13-Oct-21 12:00	O-Z-					
500170	Support CE Generator Rotor and Position Collector End Bearing Pedestal	0	6	13-Oct-21 12:00	13-Oct-21 18:00	O-Z-					
500180	Install Collector End Lower Half Bearing	0	4	13-Oct-21 18:00	13-Oct-21 22:00	O-Z-					
500200	Record Initial Generator to Stator Air Gap TE & CE Alignment	0	4	13-Oct-21 22:00	14-Oct-21 02:00	O-Z-					
500130	Disassemble & Remove Generator Rotor Skid Assembly	118	6	13-Oct-21 22:00	14-Oct-21 04:00	O-Z-					
500190	Record "As Found" Generator Rotor to Turbine Static Coupling Alignment	104	4	13-Oct-21 22:00	14-Oct-21 02:00	O-Z-					
500210	Align Wound Core to Rotor and Set Air Gap to Design	0	12	14-Oct-21 02:00	14-Oct-21 14:00	O-Z-					
500195	Correct Coupling Alignment "As Required"	104	4	14-Oct-21 02:00	14-Oct-21 06:00	O-Z-					
500220	Locate Axially and Elevation Wound Core in Generator Stator Frame Lower Half	0	24	14-Oct-21 14:00	15-Oct-21 14:00	O-Z-					
500230	Record and Adjust Core to Frame Attachment to Spring Bar Deflection	0	12	15-Oct-21 14:00	16-Oct-21 02:00	O-Z-					
500225	Bamhart Dimantle, Rig & Remove Gantry Hoist Assembly	0	8	16-Oct-21 02:00	16-Oct-21 10:00	O-Z-					
500226	Bamhart Dismantle and Remove Girders (2)	0	8	16-Oct-21 10:00	16-Oct-21 18:00	O-Z-					

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500240	FME Protect Generator Stator Frame and Core for Welding Activities	0	12	16-Oct-21 18:00	17-Oct-21 06:00	O-Z-					█ FME Protect Genera
500250	Weld Generator Wound Core Core to Frame Attachement to Spring Bars	0	24	17-Oct-21 06:00	18-Oct-21 06:00	O-Z-					█ Weld Generator Wc
500260	NDE Spring Bar Welds	0	6	18-Oct-21 06:00	18-Oct-21 12:00	O-Z-					█ NDE Spring Bar We
500270	Engineer and Customer Closout Inspection Generator Wound Core and Frame	0	2	18-Oct-21 12:00	18-Oct-21 14:00	O-Z-					█ Engineer and Cust
500280	Rig & Install Generator Frame Cover	0	4	18-Oct-21 14:00	18-Oct-21 18:00	O-Z-					█ Rig & Install Genera
Gen mechanical assembly and electrical testing											
51200	Install TE Upper Half Bearing	223	4	13-Oct-21 07:00	13-Oct-21 11:00	2-12-7					█ Install TE Upper Half Be
51240	Install & Set TE Bearing Pedestal Lower Half Oil Seals	223	4	13-Oct-21 11:00	13-Oct-21 15:00	2-12-7					█ Install & Set TE Bearing
51290	Install & Set TE Bearing Pedestal Upper Half Oil Seals	223	4	13-Oct-21 15:00	13-Oct-21 19:00	2-12-7					█ Install & Set TE Bearing
51250	Repair, Weld & NDE Collector End Bearing Pedestal Lift Oil Tubing	208	12	13-Oct-21 22:00	14-Oct-21 10:00	2-12-7					█ Repair, Weld & NDE Cd
500300	Assemble turbine to generator coupling	104	12	14-Oct-21 06:00	14-Oct-21 18:00	2-12-7					█ Assemble turbine to ge
51510	Install Grounding Brush Assemblies & Coupling Guard	198	6	14-Oct-21 18:00	15-Oct-21 00:00	2-12-7					█ Install Grounding Brus
51410	Install & Lock TE Blower Blades	135	8	16-Oct-21 02:00	16-Oct-21 10:00	2-12-7					█ Install & Lock TE Blow
51420	Install & Lock CE Blower Blower Blades	61	8	16-Oct-21 02:00	16-Oct-21 10:00	2-12-7					█ Install & Lock CE Blow
51230	Install CE Upper Half Bearing	51	4	16-Oct-21 02:00	16-Oct-21 06:00	2-12-7					█ Install CE Upper Half
51280	Install & Set CE Bearing Pedestal Lower Half Oil Seals	51	4	16-Oct-21 06:00	16-Oct-21 10:00	2-12-7					█ Install & Set CE Beari
51300	Closeout Inspection CE Bearing Pedestal Base and Bearing	51	1	16-Oct-21 10:00	16-Oct-21 11:00	2-12-7					█ Closeout Inspection C
51470	Engr Verify CE Blower Blades Properly Locked	61	1	16-Oct-21 10:00	16-Oct-21 11:00	2-12-7					█ Engr Verify CE Blowe
51480	Engr Verify TE Blower Blades Properly Locked	135	1	16-Oct-21 10:00	16-Oct-21 11:00	2-12-7					█ Engr Verify TE Blowe
51490	Install TE Blower Shroud Assembly	135	4	16-Oct-21 11:00	16-Oct-21 15:00	2-12-7					█ Install TE Blower Shr
51310	Rig & Install CE Bearing Pedestal Cover	51	4	16-Oct-21 11:00	16-Oct-21 15:00	2-12-7					█ Rig & Install CE Bear
51500	Install CE Blower Shroud Assembly	61	6	16-Oct-21 11:00	16-Oct-21 17:00	2-12-7					█ Install CE Blower Shr
51320	Install & Set CE Bearing Pedestal Upper Half Oil Seals	51	4	16-Oct-21 15:00	16-Oct-21 19:00	2-12-7					█ Install & Set CE Bear
51530	set and lock TE blower shroud assembly	135	6	16-Oct-21 15:00	16-Oct-21 21:00	2-12-7					█ set and lock TE blow
51540	Set and lock CE blower assembly	61	2	16-Oct-21 17:00	16-Oct-21 19:00	2-12-7					█ Set and lock CE blow
51340	Rig & Install Collector Brush Rigging Assembly	51	4	16-Oct-21 19:00	16-Oct-21 23:00	2-12-7					█ Rig & Install Collecto
51560	Engineer verify CE blower shroud locked and rope resin	61	2	16-Oct-21 19:00	16-Oct-21 21:00	2-12-7					█ Engineer verify CE b
51580	Install and Set CE Stator Outer Air Seal	61	4	16-Oct-21 21:00	17-Oct-21 01:00	2-12-7					█ Install and Set CE St
51590	Engineer verify TE blower shroud locked and rope resin	135	6	16-Oct-21 21:00	17-Oct-21 03:00	2-12-7					█ Engineer verify TE b
51350	Rig & Set Starting Package Assembly	51	4	16-Oct-21 23:00	17-Oct-21 03:00	2-12-7					█ Rig & Set Starting Pa
51360	Electrically Connect Exciter	127	6	16-Oct-21 23:00	17-Oct-21 05:00	2-12-7					█ Electrically Connect
51370	Install & Set Exciter Air Seal Assemblies	87	4	16-Oct-21 23:00	17-Oct-21 03:00	2-12-7					█ Install & Set Exciter A
51600	Install and Set CE Stator End Wall	61	4	17-Oct-21 01:00	17-Oct-21 05:00	2-12-7					█ Install and Set CE St
51440	Align Starting Package to Generator Rotor	51	6	17-Oct-21 03:00	17-Oct-21 09:00	2-12-7					█ Align Starting Packa
51380	Electrically Connect Starting Package Assembly	57	6	17-Oct-21 03:00	17-Oct-21 09:00	2-12-7					█ Electrically Connect
51390	Assemble Starting Package Piping	57	6	17-Oct-21 03:00	17-Oct-21 09:00	2-12-7					█ Assemble Starting P
51610	Install and Set TE Stator Outer Air Seal	135	4	17-Oct-21 03:00	17-Oct-21 07:00	2-12-7					█ Install and Set TE St
51400	Rig & Install Exciter Enclosure walls	127	6	17-Oct-21 05:00	17-Oct-21 11:00	2-12-7					█ Rig & Install Excite
51630	Rig and install Exciter enclosure roof	61	6	17-Oct-21 05:00	17-Oct-21 11:00	2-12-7					█ Rig and install Excite
51640	Install and Set TE Stator End Wall	135	8	17-Oct-21 07:00	17-Oct-21 15:00	2-12-7					█ Install and Set TE St
51460	Install & Assemble Kopflex Coupling	51	6	17-Oct-21 09:00	17-Oct-21 15:00	2-12-7					█ Install & Assemble K
51450	Weld Collector Enclosure Transition	127	12	17-Oct-21 11:00	17-Oct-21 23:00	2-12-7					█ Weld Collector Encl
51520	Rig & Install Starting Package Enclosure	51	6	17-Oct-21 15:00	17-Oct-21 21:00	2-12-7					█ Rig & Install Startin
51790	Duke Install Isolated Phase Bus Assemblies	51	72	17-Oct-21 21:00	20-Oct-21 21:00	2-12-7					█ Duke Install Isolat
51690	Install Main & Neutral Lead Assemblies	0	12	18-Oct-21 18:00	19-Oct-21 06:00	2-12-7					█ Install Main & Neut
51720	Install Main & Neutral Bushings	0	6	19-Oct-21 06:00	19-Oct-21 12:00	2-12-7					█ Install Main & Neut
51730	Install Main & Neutral Current Transformers	0	6	19-Oct-21 12:00	19-Oct-21 18:00	2-12-7					█ Install Main & Neut
51740	Final generator testing (winding resistance, DC hi pot, RTD, PF test)	42	24	19-Oct-21 18:00	20-Oct-21 18:00	2-12-7					█ Final generator te
51750	Duke Electrically Connect Current Transformers	72	6	19-Oct-21 18:00	20-Oct-21 00:00	2-12-7					█ Duke Electrically C
51800	Duke Connect bushings to isophase adapter	0	12	22-Oct-21 12:00	23-Oct-21 00:00	2-12-7					█ Duke Connect
51810	Duke Power Isolated Phase Bus & Final Electrical Testing	0	6	23-Oct-21 00:00	23-Oct-21 06:00	2-12-7					█ Duke Power Is
Final roof assembly											

█ Remaining Level of Effort
 █ Actual Work
 █ Critical Remaining Work
█ Actual Level of Effort
 █ Remaining Work
 ◆ Milestone

Bartow 4C wound core Brener		WBS view					01-Jul-21 14:51				
Activity ID	Activity Name	Total Float	Original Duration	Start	Finish	Calendar	2021				
							Jul	Aug	Sep	Oct	Nov
51550	Install roof support steel	0	24	19-Oct-21 18:00	20-Oct-21 18:00	2-12-7					Install roof suppo
51660	Install new roof panels after generator assembly	0	12	20-Oct-21 18:00	21-Oct-21 06:00	2-12-7					Install new roof p
51760	Install isophase adapter and align to bushings	0	12	21-Oct-21 06:00	21-Oct-21 18:00	2-12-7					Install isophase
51770	Install FME for welding isophase adapter	0	6	21-Oct-21 18:00	22-Oct-21 00:00	2-12-7					Install FME for w
51780	Weld isophase adapter	0	12	22-Oct-21 00:00	22-Oct-21 12:00	2-12-7					Weld isophase
Generator start up and commissioning											
61000	Inspect Main Lube Oil Reservoir	130	1	17-Oct-21 09:00	17-Oct-21 10:00	2-12-7					Inspect Main Lube C
61010	Fill Main Lube Oil Reservoir	130	6	17-Oct-21 10:00	17-Oct-21 16:00	2-12-7					Fill Main Lube Oil R
61020	Startup Main Lube Oil System & Verify Flow to All Bearings	130	2	17-Oct-21 16:00	17-Oct-21 18:00	2-12-7					Startup Main Lube C
61030	Main Lube Oil System Operational Trip Checks and Cascade Pumps	130	2	17-Oct-21 18:00	17-Oct-21 20:00	2-12-7					Main Lube Oil Syste
61040	Turbine Generator on Turning Gear for Startup and Commissioning Activities	0	24	23-Oct-21 06:00	24-Oct-21 06:00	2-12-7					Turbine Gene
61050	Check out AVR for Startup	18	6	23-Oct-21 06:00	23-Oct-21 12:00	2-12-7					Check out AVR
61060	Setup Balance Equipment for Startup	20	4	23-Oct-21 06:00	23-Oct-21 10:00	2-12-7					Setup Balance
61070	Startup and Commission Turbine and Generator	0	24	24-Oct-21 06:00	25-Oct-21 06:00	2-12-7					Startup and C

■ Remaining Level of Effort
 ■ Actual Work
 ■ Critical Remaining Work
■ Actual Level of Effort
 ■ Remaining Work
 ◆ Milestone