

# Shannon Technology and Energy Park (STEP) Power Plant

## Appendix A2.1: STEP Schedule of Structures

*[Blank Page]*

Shannon Technology and Energy Park (STEP) POWER PLANT										
Schedule of Structures										
No. (as annotated on the Proposed Site Layout Plan)	Drawing Number	Structure - Description	Dimensions (m)		Gross Internal Area, m <sup>2</sup>	FFL (mOD)	Height (m, above OD) (including Stacks)	No. of Stories	Materials and Colour	
			Length	Width						
BUILDINGS AND ENCLOSURES										
58-2002	198291-SS-A4002	FUEL GAS METERING ENCLOSURE	12.6	13.2	166	18.15	5.725	1	ROOF - COMPOSITE PVC/PLASTISOL LAMINATED INSULATED MEMBRANE WITH INTEGRAL STEEL SUPPORT DECKING, COLOUR CHROME GREEN, RAL 6020.  WALLS - COMPOSITE PVC/PLASTISOL LAMINATED INSULATED VERTICAL PROFILED MODULAR STEEL CLADDING, COLOUR OLIVE GREEN, RAL 6003.  FASCIAS & TRIMS, INCLUDING DOORS, WINDOWS, VENTILATION OPENINGS & SERVICES PENETRATION FRAMES TO BE COLOUR TRAFFIC GREY B, RAL 7043.	
59-2002	198291-SS-A4003	FUEL GAS REGULATING ENCLOSURE	12.6	13.2	166	18.15	5.725	1		
69-2002	198291-SS-A4011	SECURITY BUILDING PLAN AND ELEVATION	11	5.8	63.8	18.15	3.657	1		
61-2002	198291-SS-A4016	METERING & REGULATING AREA KIOSK ENCLOSURE	3	3	9	18.15	3	1		
62-2002	198291-SS-A4017	METERING & REGULATING AREA ANALYZER ENCLOSURE	3	4.4	13.2	18.15	3	1		
63-2002	198291-SS-A4018	METERING & REGULATING AREA INSTRUMENT ENCLOSURE	3	4.4	13.2	18.15	3	1		
27-2001	198291-SS-A4025	ADMINISTRATION BUILDING	14	22.7	318	18.15	5.435	1		
26-2001	198291-SS-A4026	CENTRAL CONTROL/OPERATIONS BUILDING	14	22.7	318	18.15	6.41	1		
24, 25-2001	198291-SS-A4027	AUXILIARY BOILER BUILDING	14.3	14.3	204	18.15	13.050, 32	1		
51-2002	198291-SS-A4028	WATER TREATMENT BUILDING	18	35	630	18.15	7.445	1		
23-2001	198291-SS-A4029A, A4029B	WORKSHOP/STORES/CANTEEN BUILDING	14	52.3	732	18.15	8.013	1		
21-2001	198291-SS-A4030A, A4030B	ELECTRICAL (GIS) SUBSTATION BUILDING	18	60.9	1096	17.15, 22.5	13.5	2		
35-2001	198291-SS-A4031A, A4031B, A4031C, A4031D, A4031E, A4031F	TURBINE HALL (TYP OF 3)	65.9	93.7	6175	18.15	30.145	1		
19-2001	198291-SS-A4032	ACC AIR EXTRACTION EQUIPMENT ENCLOSURE (TYP OF 3)	12.8	15.3	196	18.15	10.25	1		
18-2001	198291-SS-A4033	CONDENSER POLISHER EQUIPMENT ENCLOSURE (TYP OF 3)	6.3	16.3	103	18.15	5.014	1		
16-2001	198291-SS-A4034	AIR COOLED CONDENSER ELECTRICAL POWER DISTRIBUTION CENTER (TYP OF 3)	8.5	12.2	103.7	20.5	4.25	1		
36-2001	198291-SS-A44110	BESS POWER DISTRIBUTION CENTER	3.05	12.2	37.2	20.5	4.25	1		
52-2002	198291-SS-A4035	FIRE WATER PUMPS ENCLOSURE	4.5	10.5	47	18.15	7.185	1		
72-2002	198291-SS- A4113B	FUEL OIL FORWARDING PUMP BUILDING	49.6	16.6	823	18.15	6.935	1		
72-2002	198291-SS- A4113A	CENTRIFUGE AND FUEL OIL UNLOADING PUMP BUILDING	30.6	8.6	263	18.15	7.185	1		
75-2002	198291-SS- A4115	FUEL OIL TRUCK UNLOADING SHELTER	16	19	304	18	8.85	1		
FIELD ERECTED TANKS										
53-2002	198291-SS-A4077	RAW/SERVICE/FIRE WATER STORAGE TANK (TYP OF 2)	24	18	254.5	6107.3	18.15	24.15	EQUIPMENT AND SOUND WALLS TO BE COLOUR OLIVE-GRAY, RAL 606.	
54-2002	198291-SS-A4077	DEMINERALIZED WATER STORAGE TANK (TYP OF 2)	15.5	13	132.7	2057.4	18.15	15.65		
70-2002	198291-SS-A4112	FUEL OIL STORAGE TANK (TYP OF 2)	21	18	254.5	5343.8	18.15	21.15		
71-2002	198291-SS-A4112	FUEL OIL STORAGE DAY TANK (TYP OF 2)	15.5	13	132.7	2057.4	18.15	15.65		
EQUIPMENT AND STRUCTURES										
60-2002	198291-SS-A4052	FUEL GAS HEATER - WATER BATH TYPE (TYP OF 3)	18.05	17.05	307.8	1763.4	18.15	5.73	EQUIPMENT AND SOUND WALLS TO BE COLOUR OLIVE-GRAY, RAL 606.	
57-2002	198291-1STU-S3960	WASTEWATER TREATMENT EQUIPMENT PACKAGE			in ground element	in ground element			In ground element. Not applicable.	
31-2001/65-2002	198291-SS-A4014	RETAINING WALL	366.8	1	366.8	-	varies	varies	Concrete (unpainted)	
66-2002	198291-SS-A4012	CROSSOVER PLATFORM (TYP OF 2)	14.613	1.48	21.6	24.8	18.15	1.149	Galvanized Steel (unpainted)	
68-2002	198291-SS-A4012	UTILITY RACK TO AGI AREA	18	6	108	691.2	18	6.4	Galvanized Steel (unpainted)	
67-2002	198291-SS-A4013	UTILITY SLEEPER (TYP OF MANY)	0.614	4.705	2.9	1.4	18	0.5	Galvanized Steel (unpainted)	
64-2002	198291-1STA-S3911	FIRE WATER DETENTION POND			in ground element	in ground element			In ground element. Not applicable.	
55-2002	198291-SS-A4077	EFFLUENT SUMP			in ground element	in ground element			In ground element. Not applicable.	
4, 17-2001	198291-SS-A4075A, A4075B, A4075C, A4075D, A4075E	AIR COOLED CONDENSER (TYP OF 3)	48.6	55.8	2711.9	88420.8	18	32.605	EQUIPMENT AND SOUND WALLS TO BE COLOUR OLIVE-GRAY, RAL 606.	
14-2001	198291-SS-A4078	GENERATOR STEP-UP TRANSFORMER (TYP OF 3)	9.968	10.436	104	624.6	18.15	6.004		
20-2001	198291-SS-A4079	BATTERY ENERGY STORAGE SYSTEM (BESS) EQUIPMENT	33.907	163	5526.8	34797	18	6.296		
34-2001	198291-SS-A4111	BESS STEP-UP TRANSFORMER	9.15	10	91.5	521.6	18.5	5.7		
37-2001	198291-SS-A4111	BESS AUXILIARY TRANSFORMER	5	5	25	75	18.5	3		
22-2001	198291-SS-A4076A, A4076B	AIR COOLED HEAT EXCHANGERS	31.914	40.5	1292.5	12925.2	18	10		
30-2001/56-2002	198291-1STF-S3901	OIL WATER SEPARATOR (TYP OF 2)			in ground element	in ground element				In ground element. Not applicable.
33-2001	198291-SS-A4036	UTILITY RACK CCGT AREA	77.09	3	231.3	1503.3	18	6.5		Galvanized Steel (unpainted)