McMaster University
NF91 Transformer Replacement
Construction Planning

ID	% Comple	Task	Duration
1	**0%**	**6-Construction Period**	**386 days**
2	0%	Contract award and PO released	5 days
3	0%	Contractor mobilisation	10 days
4	**0%**	**Major Equipment Received**	**77 days**
5	0%	T1 reception	5 days
6	0%	T2 reception	5 days
7	0%	E-house reception	5 days
8	**0%**	**Construction activities on T1**	**129 days**
9	0%	Foundation and spill pit installation	40 days
10	0%	T1 mechanical assembly	10 days
11	0%	Isolation of bus A1 ,A2 & A3	50 days
12	0%	T1 electrical assembly	10 days
13	0%	T1 HV electrical installation	5 days
14	0%	T1 MV civil/electrical installation	10 days
15	0%	T1 commissioning	10 days
16	0%	T1 energize no load	7 days
17	0%	T1 MV outage for connection on T1Q1 at Clark building	5 days
18	0%	MV connection on Clarke over head line	5 days
19	0%	T1 hand over to client	5 days
20	**0%**	**Construction activities on E-House**	**101 days**
21	0%	Foundation installation	15 days
22	0%	Mechanical assembly	15 days
23	0%	Electrical assembly	15 days
24	0%	Station services transformer SS1 & SS2 installation	10 days
25	0%	Cables trenches installation	5 days
26	0%	Commissioning	15 days
27	0%	Energize no load	7 days
28	0%	Hand over to client	5 days
29	**0%**	**Construction activities on T2**	**100 days**
30	0%	HV Outage B3 & A2	100 days
31	0%	Removal of existing T2	10 days
32	0%	Foundation and spill pit installation	30 days
33	0%	T2 mechanical assembly	10 days
34	0%	T2 electrical assembly	10 days
35	0%	T2 HV electrical installation	5 days
36	0%	T2 MV civil/electrical installation	10 days
37	0%	MV outage for connection on T2Q3 at Clark building	20 days
38	0%	MV connection on Clark over head line	5 days
39	0%	T2 commissioning	10 days
40	0%	T2 energize no load	5 days
41	0%	T2 hand over to client	5 days
42	**0%**	**Construction of 115 kV yard**	**65 days**
43	0%	T1 HV yard and A2/A1 bus upgrade preparation	10 days
44	0%	Outage on HV side of T2 (removal of A3 lead from B3 line without MSO)	2 days
45	0%	outage on HV side of T1 (B4 line MSO)	10 days
46	0%	T1 HV yard upgrade & line switch	10 days
47	0%	A1-CVT upgrade	5 days
48	0%	Commissioning of HV yard of T1	5 days
49	0%	T2 HV yard and A3 bus upgrade preparation	5 days
50	0%	Outage on HV side of T2 (circuit B3 line MSO)	10 days
51	0%	T2 HV yard upgrade & line switch	10 days
52	0%	A3-CVT upgrade	5 days
53	0%	commissioning of HV yard of T2	5 days
54	**0%**	**Equipment removal**	**45 days**
55	0%	Outage on HV side of T1 (B4 line MSO & A2 bus)	15 days
56	0%	Removal of existing T1	15 days
57	0%	Removal of existing E-house	15 days
58	0%	Removal of existing grading	10 days
59	0%	Removal of existing fence	5 days
60	**0%**	**Yard civil completion**	**15 days**
61	0%	New fence and gate installation	5 days
62	0%	Regrading of the station	10 days
63	**0%**	**Project Close-Out**	**15 days**
64	0%	As-Built Drawings	15 days

