



Documents and Timelines for LDC Based Projects

Hydro One Networks Inc.

October 31, 2014 | Revision 2.1

Project Size: less than or equal to 250 kW
Hydro One owned / shared feeders w/ downstream embedded LDC

Engineering and Project Management Assignment

Scope / Requirements		Requirements from the LDC
Feeder Protection Setting Review		Hydro One Protection Settings Review - 6 weeks before ISD
SCADA Monitoring for DG Site		N/A
Transfer Trip		N/A
Letter of Equivalency (LoE)	Draft	4 weeks before ISD
	Final	Ten (10) business days after ISD
Teleprotection Verification Report (TVR) w/ SLD	Draft	N/A
	Final	N/A
SLD & Protection Description Matrix		8 weeks before ISD
Cost Connection Agreement		CCA

Project Size: Less than or equal to 500 kW
LDC owned / Express Feeder

No Engineering and Project Management Assignment

Scope / Requirements		Requirements from the LDC
Feeder Protection Setting Review (required on Express if Hydro One owns Protection settings)		<ul style="list-style-type: none"> Setting Reviewed during LDC CIA If changes required - An approved copy of proposed setting changes submitted to Hydro One P&C Technical Services for review - 6 weeks before ISD
SCADA Monitoring for DG Site		N/A
Transfer Trip for DG Site		N/A
Letter of Equivalency (LoE)	Draft	4 weeks before ISD
	Final	10 days after ISD
Teleprotection Verification Report (TVR) w/ SLD	Draft	N/A
	Final	N/A
SLD & Protection Description Matrix		8 weeks before ISD
Cost Connection Agreement		If protections on express feeder owned by LDC – CCRA (Tx) / CCA (Dx)

Project Size: from 251kW to 500 kW

Hydro One owned /shared feeders w/ downstream embedded LDC

Engineering and Project Management Assignment

Scope / Requirements		Requirements from the LDC
Feeder Protection Setting Review		<ul style="list-style-type: none"> Hydro One Protection Settings Review - 6 weeks before ISD
SCADA Monitoring		<ul style="list-style-type: none"> Monitoring Required NMS update needs to be done six (6) Weeks before ISD. Complete communication link and SCADA point testing 2 weeks before ISD
Transfer Trip (Determined in CIA)		<ul style="list-style-type: none"> Transfer Trip or Anti Islanding Schemes required. If Transfer Trip: <ul style="list-style-type: none"> Dead Zone Transfer Trip testing – 2 weeks before ISD Live Zone Transfer Trip Test – within 1 week of ISD
Letter of Equivalency (LoE)	Draft	4 weeks before ISD
	Final	10 days after ISD
Teleprotection Verification Report (TVR) w/ SLD	Draft	4 weeks before ISD
	Final	10 days after ISD
SLD & Protection Description Matrix		8 weeks before ISD
Connection Agreement		CCA

Project Size: 501kW to 1MW

Fully Owned LDC feeder / Express Feeders (serving only that LDC)



Engineering and Project Management Assignment

Scope / Requirements		Requirements from the LDC
Feeder Protection Setting Review (required on Express if Hydro One owns Protection settings)		<ul style="list-style-type: none">• Setting Reviewed during LDC CIA• If changes required - An approved copy of proposed setting changes submitted to Hydro One P&C Technical Services for review - 6 weeks before ISD• Directioning determined LDC
SCADA Monitoring		<ul style="list-style-type: none">• Monitoring Required• NMS Update needs - 6 Weeks before ISD.• Communication link/SCADA point testing - 2 Weeks before ISD
Transfer Trip (Determined by LDC)		<ul style="list-style-type: none">• Transfer Trip or Anti Islanding Schemes required.• If Transfer Trip:<ul style="list-style-type: none">• Dead Zone Transfer Trip testing - 2 weeks before ISD• Live Zone Transfer Trip Test – within 1 week of ISD
Letter of Equivalency (LoE)	Draft	4 weeks before ISD
	Final	10 days after ISD
Teleprotection Verification Report (TVR) w/ SLD	Draft	4 weeks before ISD (Section 3A)
	Final	10 days after ISD
SLD & Protection Description Matrix		8 weeks before ISD
Cost Connection Agreement		CCRA (Tx) / CCA (Dx)

Project Size: 501kW to 1MW

Hydro One owned /shared Feeders w/ downstream embedded LDC Engineering and Project Management Assignment

Scope / Requirements		Requirements from the LDC
Feeder Protection Setting Review		Hydro One Protection Settings Review Required – 6 weeks before
		Directioning will be determined Cases by Case Basis (If Required) 6) weeks before ISD
SCADA Monitoring		<ul style="list-style-type: none"> Monitoring Required NMS Updates - 6) weeks before ISD. Communication link & SCADA point testing - 2 weeks before ISD
Transfer Trip		<ul style="list-style-type: none"> Transfer Trip or Anti Islanding Schemes required. If Transfer Trip: <ul style="list-style-type: none"> Dead Zone Transfer Trip testing - 2 weeks before ISD Live Zone Transfer Trip Test – within 1 week of ISD
Letter of Equivalency (LoE)	Draft	4 weeks before ISD
	Final	10 days after ISD
Teleprotection Verification Report (TVR) w/ SLD	Draft	4 weeks before ISD (Section 3A)
	Final	10 days after ISD
SLD & Protection Description Matrix		8 weeks before ISD
Cost Connection Agreement		CCA

Project Size: Greater than 1 MW

Fully Owned LDC feeder / Express Feeders (serving only that LDC)

Engineering and Project Management Assignment

Scope / Requirements		Requirements from the LDC
Feeder Protection Setting Review (required on Express if Hydro One owns Protection settings)		<ul style="list-style-type: none"> Setting Reviewed during LDC CIA If changes required - An approved copy of proposed setting changes submitted to Hydro One P&C Technical Services for review - 6 weeks before ISD
SCADA Monitoring		<ul style="list-style-type: none"> Monitoring Required NMS Update – 6 Weeks before ISD. Communication link & SCADA point testing - 2 Weeks before ISD)
Transfer Trip		<ul style="list-style-type: none"> Transfer Trip or Anti Islanding Schemes required. If Transfer Trip: <ul style="list-style-type: none"> Dead Zone Transfer Trip testing - 2 weeks before ISD Live Zone Transfer Trip Test – within 1 week of ISD
Letter of Equivalency (LoE)	Draft	4 weeks before ISD
	Final	10 days after ISD
Teleprotection Verification Report (TVR) w/ SLD	Draft	4 weeks before ISD (Section 3A)
	Final	10 days after ISD
SLD and Protection Description		8 weeks before ISD
Cost Connection Agreement		CCRA (Tx) / CCA (Dx)

Project Size: Greater than 1 MW

Hydro One owned/shared Feeders w/ downstream embedded LDC

Engineering and Project Management Assignment

Scope / Requirements		Requirements from the LDC
Feeder Protection Setting Review		Hydro One Protection Settings Review <ul style="list-style-type: none"> • Required
		Directioning will be determined: <ul style="list-style-type: none"> • Cases-by-case basis • (If Required – 6 weeks before ISD)
SCADA Monitoring		<ul style="list-style-type: none"> • Monitoring Required • NMS Update - six (6) weeks before ISD. • Complete communication link and SCADA point testing - • 2 weeks before ISD
Transfer Trip		<ul style="list-style-type: none"> • Transfer Trip or Anti Islanding Schemes required. • If Transfer Trip: <ul style="list-style-type: none"> • Dead Zone Transfer Trip testing - 2 weeks before ISD • Live Zone Transfer Trip Test – within 1 week of ISD
Letter of Equivalency (LoE)	Draft	4 weeks before ISD
	Final	10 days after ISD
Teleprotection Verification Report (TVR) w/ SLD	Draft	4 weeks before ISD (Section 3A)
	Final	10 days after ISD
SLD & Protection Description		8 weeks before ISD
Cost Connection Agreement		CCA (Dx)