

No.	Region of Province	Title	Description	Status	Study Schedule	Stakeholder Consultation	Comments
NW-2	Northwest	Slave Lake Area Study	72 kV.....	Scope of Study under development	Need Assessment – Q3 Alternative Screening – Q3 07 Evaluation/Recommendation – Q4 07 Need Application – Q4 07	Broad stakeholder consultation	
NE-1	Northeast	Long-Term Northeast Area Planning Study	Upgrade transmission facilities in and into the NE to meet large number of new oil sands loads. Phase 1 development addresses regional system reinforcement. Phase 2 development addresses the inter-regional system reinforcement	Phase 1 requirements will be filed in conjunction with customer interconnections proposals. Phase 2 will begin on Q3 07.	Need Assessment – complete Alternative Screening – complete Evaluation/Recommendation – Q2 07 Need Application – Q2 07	Broad stakeholder consultation for Phase 2	The regional system development has been separated into two phases where Phase 1 addresses the need for transmission capacity upgrades that will be required in the mid-term by constructing regional facilities. Phase 2 will address the long-term inter-regional requirements by construct new facilities and may be a joint filing of NID and Facility consultation effort.
NE-2	Northeast	North of Fort McMurray Oil Sands Project Interconnections	Develop a conceptual plan for the 240 kV transmission system in order to connect the major oil sands projects north of Fort McMurray.	Completed meetings with the area stakeholders and customers. Starting development of individual Interconnection Proposals	Review regional system plan with Regulatory for tariff application purposes – complete Alternative Screening - complete Evaluation/Recommendation – complete Interconnection Proposals – Q4 06 to Q4 07	Limited to the regional stakeholders and customers	Interconnection Proposals will be posted to the EUB website when they are accepted by the Customers.
NE-3	Northeast	South of Fort McMurray Oil Sands Project Interconnections and new PODs	Develop a conceptual plan for the 240 kV and 144 kV transmission systems in order to connect the oil sands projects and pipeline loads the area south of Fort McMurray.	Developing conceptual plan.	Review regional system plan with Regulatory for tariff application purposes – Q1/07 Alternative Screening – Q2/07 Evaluation/Recommendation – Q2/07 Interconnection Proposals – Q3/07 to Q1/08	Limited to the regional stakeholders and customers	Consultation with customers and DFOs on the conceptual development.
NE-4	Northeast	Heartland	Determine the system	An initial consultation plan	Need Assessment –	Broad	The AESOs consultation effort is being

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		Transmission Development	reinforcement requirements into the Fort Saskatchewan area in response to significant oilsands upgrader and associated industrial load growth.	has been issued and is being further developed in discussion with the two TFOs involved. Technical need assessment underway.	complete Alternative Screening – complete Evaluation/Recommendation – Q2 07 Need Application – Q3 07	stakeholder consultation	closely coordinated with that of the two TFOs involved in order to get a broader degree of involvement of the landowner community that will eventually be affected by the transmission lines being proposed.
NE-5	Northeast	Bitumen Upgrader Project Interconnections	Develop a conceptual plan for the 240 kV transmission system in order to connect the upgrader projects in the Fort Saskatchewan area.	Developing conceptual plan.	Review regional system plan with Regulatory for tariff application purposes – Q4/06 Alternative Screening – Q1/07 Evaluation/Recommendation – Q1/07 Interconnection Proposals – Q1/07 to Q3/07	Limited to the regional stakeholders and customers	Consultation with customers on the conceptual development.
NE-6	Northeast	Edmonton Area 240 kV Reconfiguration <i>(Formerly Referred to as Northeast Intermediate Need)</i>	Reconfiguration of the 240 kV system in the Edmonton area is being investigated to provide interim capacity to the Fort Saskatchewan (and on to Fort McMurray) regions. Other aspects of the intermediate needs have been incorporated into other major system projects.	Need Application to be filed in July 07.	Need Assessment - Complete Alternative Screening – complete Evaluation/Recommendation – complete Need Applications – Q2 07	Combined with consultation for Heartland transmission development	
ED-1	Edmonton	Edmonton-Lake Wabamun-Drayton Valley- Wetaskiwin Regional Planning Study (138 kV)	Potential equipment thermal loading issues (138 kV) have been identified in the Wabamun and Edmonton areas.	Need Assessment underway.	Need Assessment – Q2 07 Alternative Screening – Q3 07 Evaluation/Recommendation – Q4 07 Need Application –Q1 08	Broad stakeholder consultation	The underlying 138 kV sub transmission system that parallels the bulk system may carry both local area load and system loads under abnormal conditions Need to insure that the 138 kV systems do not get overloaded.
ED-2	Edmonton	Sundance-Wabamun 240 kV Reconnection	Previously identified problem of 240 kV line overload between	Planning of alternatives with Project No.ED-1.	Need Assessment – complete Alternative Screening – Q4	Focused to working with the TFO/DFO,	Retirements of Wabamun units has and will alter the balance of flows on the system. Future plans for Wabamun, given its

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		Study	Sundance and Wabamun.		07 Evaluation/Recommendation – Q3 07 Need Application – Q4 07	specific generators and local municipal authorities	advanced age, need to be identified.
ED-4	Edmonton	Keephills-Ellerslie-Genesee (KEG) Remedial Action Scheme (RAS)	Remedial action scheme to cover category C3 events as much as practically possible for 1202L, 1203L and 1209L. Double line outages (C5) may also be covered as practically possible.	Initial work performed by Operations Planning to define the need. A consultant will be engaged to perform the detailed study to plan for facilities.	Need Assessment – Q2 06 Alternative Screening – N/A Evaluation/Recommendation – Q2 07 Need Application – Q3 07	Focused to working with the TFO/DFO and specific generators	Alternative Recommendation is dependent on Fort Saskatchewan Intermediate and long-term developments.
C-1	Central	Vegreville, Lloydminster, Wainwright and Provost Area Planning Study	To address low voltage and overloading issues. This will result in a number of projects.	Will proceed with need analysis in Q2 07.	Need Assessment – Q2 07 Alternative Screening – Q3 07 Evaluation/Recommendation – Q4 07 Need Applications – Q4 07	Focused to working with the TFO/DFO and specific generators	Developing study scope.
C-2	Central	Hanna and Sheerness Area Planning Study	To identify any voltage or overloading issues.	Will proceed with need analysis in Q4 07.	Need Assessment – Q4 07 Alternative Screening – Q1 08 Evaluation/Recommendation – Q1 08 Need Application – Q2 08	Broad stakeholder consultation	Correlates with coal-bed methane and pipeline load growth in Hanna area.
CY-1	Calgary	Calgary Area Studies	Transmission development within Calgary		<u>North 138 kV Upgrade:</u> Need Application – Q2 08 <u>South 69 kV Upgrade:</u> Need Application – Q2 08 <u>Central Business District:</u> Need Assessment and Alternative Screening – Q1 08 Evaluation/Recommendation – Q2 - Q3 08	Broad Stakeholder Consultation	Schedule and projects may be impacted by ENMAX Generation announcement. May be a joint filing of NID and Facility consultation effort.
			Transmission development	Need Assessment and	<u>936/937L Upgrade:</u>	Broad	Schedule and projects may be impacted by

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			to supply Calgary.	Alternative Screening underway.	Need Assessment and Alternative Screening – Q1 – Q2 07 Evaluation/Recommendation on Q3 07 Need Application – Q4 07 - Q1 08	stakeholder consultation	ENMAX Generation announcement. May be a joint filing of NID and Facility consultation effort. North area results to be presented to ENMAX by next month
S-1	South	South Area Planning Study	To prepare a combined South Area transmission planning study incorporating the development plans in the SW and the SE.	Scope of study under development.	Need Assessment – Q3 07 Alternative Screening – Q4 07 Evaluation/Recommendation – Q1 08 Need Application – Q1 08 – Q2 08	Broad stakeholder consultation	Being reassessed in light of the wind integration issues. The schedule will be modified as required. May be a joint filing of NID and Facility consultation effort.
S-2	South	Southeast Area Planning Study	The southeast area plan will identify the transmission development in the region that is required to support load growth, generation development and restoration of the Alberta-Saskatchewan inter-tie capacity.	Alternative Assessment and Recommendation completed.	Need Assessment - complete Need Assessment Revision – Nov 06 Alternative Screening Revision – Nov 06 Evaluation/Recommendation – Q1- Q2 07 Need Application – Q3 07	Broad stakeholder consultation	Alternative Assessment and Recommendation stakeholder consultation underway for Part A requirements. Potentially filing 4 local area applications for Part A requirements. Parallel process to develop NID and Facility Application to begin Q4 07.
P-1	Entire System	NERC C and D Contingencies	Conduct studies to determine compliance with NERC standard TPL-003 and TPL-004. Conduct dynamic studies to observe how the system reacts to major Category C & D disturbances. Develop mitigation plans as required.	Need Assessments are being done on a region by region basis.	<u>Category C:</u> Need Assessment – Q1 07 Detailed Analysis – Q2 07 Need Application – Q3 07 <u>Category D:</u> Need Assessment – Q1 07 Detailed Analysis – Q2 07 Need Application – Q3 07	Information will be provided to a broad stakeholder audience when it is available	Need to develop technical guidelines with the TFO's regarding methodologies to determine equipment emergency ratings.
P-2	Intertie	Montana Alberta Tie Line	Merchant project; 240 kV tie between Lethbridge, AB and Great Falls, Montana.	Filed Need Application on April 26/06 Filed Amendment to Need Application Nov 06.	Need Application – Filed Apr 06 MATL Scope Change – May 31, 06		Schedule driven by EUB and project proponents. AESO-MATL EUB Hearing to begin in July.

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					Need Assessment Revision – Nov 06		

Note: Project Study plans are also being developed regarding initiating work on a 2nd Edmonton-Calgary 500 kV transmission line, and a 2nd intertie with British Columbia. Those initiatives will be added to this summary when the plans are further advanced and milestones have been forecast.

Note: Regional planning is currently working with Operations to review the Joffre area capabilities in light of the March 17, 2007 events.