1 Q. **Distribution** 2 3 **Distribution Reliability Initiative (Pooled)** 4 **PUB 21.0 NP** 5 6 **Distribution Reliability Initiative (Pooled)** 7 Please provide an updated report on the Distribution Reliability Initiative that was 8 filed with the Board with the 2006 Capital Budget. 9 The Distribution Reliability Initiative is aimed at identifying and addressing reliability 10 A. 11 related issues associated with the worst performing feeders on the distribution system. 12 The initiative involves: 13 14 analyzing reliability data for the previous 5 year period; identifying the 15 worst performing feeders in terms of SAIDI, SAIFI and customer 15 16 minutes; 17 carrying out an engineering assessment on those feeders; and based on the data and engineering assessments, proposing reliability based projects 18 19 for the upcoming budget. 20 21 The Distribution Reliability Initiative is one component of the capital budget planning process at Newfoundland Power. For the 2007 budget, upward cost pressure was 22 23 identified related to the Rattling Brook Refurbishment project. 24 25 After due consideration, it was decided to suspend the Distribution Reliability Initiative for 2007. Therefore, no formal Corporate Distribution Reliability Review was prepared. 26 27 The Company anticipates that the initiative will formally resume in 2008. 28 29 Although no formal Corporate Distribution Reliability Review was prepared, the 30 Company monitors reliability statistics on an ongoing basis and will initiate engineering assessments of feeders if required. Customer Minutes of Interruptions, SAIFI and 31 SAIDI² from the 2006 reliability analysis of the fifteen worst performing feeders is 32 presented in Tables 1, 2 and 3. 33

System Average Interruption Frequency Index ("SAIFI"). Distribution SAIFI records the average number of unscheduled outages related to distribution system failure.

System Average Interruption Duration Index ("SAIDI"). Distribution SAIDI records the average hours of unscheduled outage related to distribution system failure.

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 $Table\ 1$ Five Year Average Unscheduled Distribution Related Outages 2001-2005 Sorted by Customer Minutes

	Annual Customer	Annual Distribution	Annual Distribution
Feeder	Minutes of Interruption	SAIFI	SAIDI
LEW-02	832928	3.90	9.10
BCV-02	705984	4.86	7.71
BOT-01	676529	2.46	6.99
GLV-02	606482	3.40	8.16
PUL-01	539202	2.79	5.73
GFS-06	498358	2.61	5.12
SMV-01	421093	2.53	6.84
LET-01	416822	2.19	3.77
HOL-01	380993	2.03	3.41
WES-02	376982	4.02	8.27
PUL-02	347684	2.41	3.74
CHA-01	334508	2.77	2.74
HWD-07	330788	2.62	2.38
NWB-02	320430	2.08	5.13
GBY-02	314584	2.13	5.94

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Table 2 Five Year Average Unscheduled Distribution Related Outages 2001 – 2005 Sorted by SAIDI

	Annual Customer	Annual Distribution	Annual Distribution		
Feeder	Minutes of Interruption	SAIFI	SAIDI		
GPD-01	191268	2.04	13.62		
LEW-02	832928	3.90	9.10		
WES-02	376982	4.02	8.27		
GLV-02	606482	3.40	8.16		
WES-03	244143	2.20	7.89		
BCV-02	705984	4.86	7.71		
WES-01	172241	3.33	7.34		
BOT-01	676529	2.46	6.99		
SMV-01	421093	2.53	6.84		
SUM-02	230342	2.72	6.60		
GBY-03	303574	2.05	6.56		
BUC-02	61248	2.78	6.38		
GBY-02	314584	2.13	5.94		
PUL-01	539202	2.79	5.73		
NWB-02	320430	2.08	5.13		

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Table 3 Five Year Average Unscheduled Distribution Related Outages 2001 – 2005 Sorted by SAIFI

	Annual Customer	Annual Distribution	Annual Distribution
Feeder	Minutes of Interruption	SAIFI	SAIDI
BCV-02	705984	4.86	7.71
GBS-02	128971	4.42	4.87
WES-02	376982	4.02	8.27
LEW-02	832928	3.90	9.10
FER-01	149046	3.90	3.94
LOK-01	266116	3.64	4.26
GRH-02	227927	3.63	4.80
GLV-02	606482	3.40	8.16
GRH-03	114658	3.38	2.52
ROB-01	310450	3.34	4.82
WES-01	172241	3.33	7.34
CAB-01	273648	3.21	4.10
GLN-01	137121	3.09	3.45
MOB-01	266097	2.81	4.31
PUL-01	539202	2.79	5.73