

**Chugach Electric Association,
Inc
2005 – 2009 Capital Improvement
Program**

October 27, 2004

Financial Targets for 2005 – 2009 Capital Improvement Program (CIP)

3 Match depreciation & amortization expense

§ Capital

- Approximately \$152 million over 5 year period
 - Capitalized Maintenance
 - Capital Improvement Projects

§ Amortized Projects

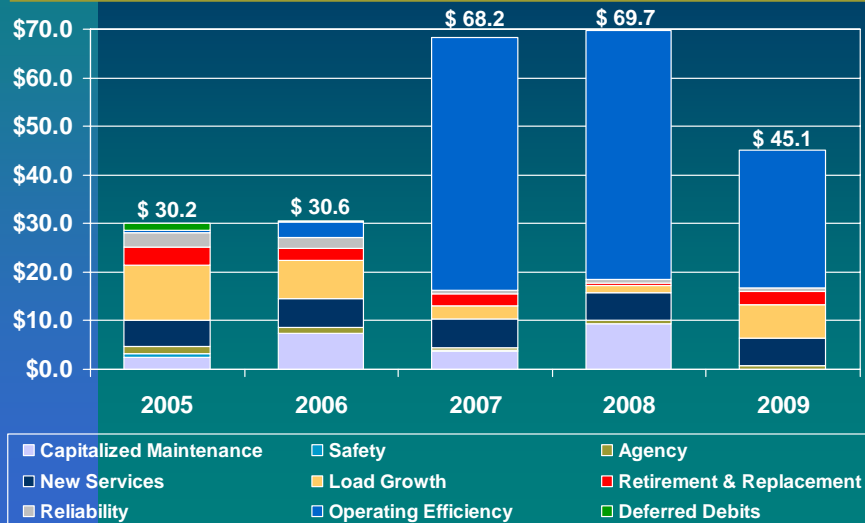
- Approximately \$7.5 million over 5 year period
 - Deferred Studies
 - IT Projects

§ Total targeted approximately \$159.5 million over 5 years

3 **Current Plan is \$243.8 million over 5 years**

§ **Includes \$128.5 million associated with new generation**

Net Capital Expenditures 2005 – 2009 (In Millions)



Further Discussion continued

3 Future Major Projects Currently in Design Phase

- § Abbott Loop Substation

- § Postmark 138/12.5kV Substation

- § New 138kV Huffman to South Anchorage

- § 138kV Yard at IGT

- § New Generation

Capital Improvement Plan
2005 to 2009 By Function

Budget Item	Budget Item Title	Function	Category	2005	2006	2007	2008	2009
DISTRIBUTION PROJECTS								
01.0367	OH Line Extensions - Distribution (66% non-reim only)	Distribution	New Services	\$157,000	\$161,000	\$161,000	\$161,000	\$161,000
01.0368	UG Line Extensions - Distribution (66% non-reim only)	Distribution	New Services	\$2,479,000	\$2,513,000	\$2,513,000	\$2,513,000	\$2,513,000
01.0581	Operations Service Connects (incl Coreflo)	Distribution	New Services	\$1,665,000	\$1,726,000	\$1,726,000	\$1,726,000	\$1,726,000
01.0667	Distr. Primary Loop Closures	Distribution	Reliability	\$85,100	\$52,500	\$52,500	\$52,500	\$52,500
02.0384	Abbott Loop Distr. Subst. Feeders	Distribution	Load Growth	\$0	\$0	\$0	\$94,500	\$1,064,300
02.0745	Posmark Distribution Substation Feeders	Distribution	Load Growth	\$212,000	\$956,000	\$0	\$0	\$0
02.0787	Dowling 612 Underground Feeder Circuit	Distribution	Load Growth	\$772,600	\$0	\$0	\$0	\$0
02.0817	Airport 412 Feeder Getaway	Distribution	Reliability	\$110,000	\$0	\$0	\$0	\$0
03.0182	Code Violation Corrections	Distribution	Safety	\$48,000	\$50,000	\$50,000	\$50,000	\$50,000
03.0225	12.5 & 25kV Distribution Reconductoring	Distribution	Load Growth	\$0	\$0	\$200,000	\$200,000	\$200,000
03.0509	UG Cable Rehabilitation Project	Distribution	Reliability	\$0	\$400,000	\$400,000	\$400,000	\$400,000
03.0538	UG Cable Replacement	Distribution	Reliability	\$0	\$250,000	\$250,000	\$250,000	\$250,000
03.0541	Bombrook Subd. Acdn #3 - 3ph Cable Replacement	Distribution	Reliability	\$240,000	\$0	\$0	\$0	\$0
03.0543	Dave's Creek 352 Re-Energize "B" Phase	Distribution	Load Growth	\$58,300	\$59,800	\$60,000	\$60,000	\$60,000
03.0810	Municipal Undergrounding	Distribution	Agency	\$600,000	\$600,000	\$0	\$0	\$0
03.0811	State Undergrounding Requirement	Distribution	Agency	\$400,000	\$400,000	\$400,000	\$400,000	\$400,000
03.0866	Hope Line Reliability (100% Grant Reimb)	Distribution	Reliability	\$0	\$0	\$0	\$0	\$0
07.0849	Street Light Conductor Replacement	Distribution	Reliability	\$72,800	\$75,500	\$75,500	\$75,500	\$75,500
CapMeter	Capitalized Meters/Transformers	Distribution	New Services	\$1,340,100	\$1,422,000	\$1,422,000	\$1,422,000	\$1,422,000
DISTRIBUTION PROJECTS SUBTOTAL				\$8,239,900	\$8,665,800	\$7,310,000	\$7,404,500	\$8,314,300

DISTRIBUTION SUBSTATION PROJECTS								
04.0428	Abbott Loop Substation	Distribution Substation	Load Growth	\$0	\$0	\$29,000	\$187,000	\$3,307,000
05.0380	Portage Subst Switchgear Roof	Distribution Substation	R&R Distribution	\$79,000	\$0	\$0	\$0	\$0
05.0488	Alternate Station Service	Distribution Substation	R&R Distribution	\$34,400	\$35,800	\$35,800	\$35,800	\$35,800
05.0746	Postmark 138/12.5kV Substation	Distribution Substation	Load Growth	\$431,000	\$3,646,000	\$0	\$0	\$0
05.0825	Dowling Substation 612 Breaker	Distribution Substation	Load Growth	\$384,000	\$0	\$0	\$0	\$0
05.0847	Airport Substation 412 Breaker	Distribution Substation	Load Growth	\$284,000	\$0	\$0	\$0	\$0
05.0957	Tumagain Relay and Control Upgrade	Distribution Substation	R&R Distribution	\$0	\$0	\$0	\$0	\$263,000
05.0959	Woodland Park Relay and Control Upgrade	Distribution Substation	R&R Distribution	\$0	\$0	\$0	\$0	\$263,000
DISTRIBUTION SUBSTATION PROJECTS SUBTOTAL				\$1,212,400	\$3,681,800	\$64,800	\$222,800	\$3,868,800

MUNICIPAL AND STATE RELOCATION PROJECTS								
03.0485	Misc. State and Muni. Relocation Projects (10% non-reim only)	Reimb Relocates	Agency	\$156,000	\$156,000	\$156,000	\$156,000	\$156,000
03.0485M	West No Lights Relocation - Dist (10% non-reim only)	Reimb Relocates	Agency	\$262,800	\$0	\$0	\$0	\$0
MUNICIPAL AND STATE RELOCATION PROJECTS SUBTOTAL				\$418,800	\$156,000	\$156,000	\$156,000	\$156,000

SUBTRANSMISSION PROJECTS								
11.0487	South Anch Sub 34.5kV Feeders	Subtransmission	Load Growth	\$556,000	\$0	\$0	\$0	\$0
02.0145	Alternate 35kV Supply to Baxter Substation	Subtransmission	Reliability	\$1,880,000	\$896,000	\$0	\$0	\$0
03.0820	JGT 34.5kV Getaway Replacements	Subtransmission	R&R Distribution	\$0	\$0	\$0	\$160,300	\$1,185,600
11.0491	34kV Reconductor-Sand Lake Sub to 94th Ave	Subtransmission	Load Growth	\$0	\$0	\$0	\$803,300	\$0
11.0386	34.5kV Subtrans OH Reconductoring	Subtransmission	Load Growth	\$0	\$0	\$0	\$0	\$2,184,000
SUBTRANSMISSION PROJECTS SUBTOTAL				\$2,436,000	\$896,000	\$0	\$963,600	\$3,369,600

Budget Item	Budget Item Title	Function	Category	2005	2006	2007	2008	2009
TRANSMISSION PROJECTS								
05.0726	Six Mile East Bus Improvements	Transmission	Reliability	\$0	\$184,012	\$0	\$0	\$0
08.0475	138 kV International Subst.to So. Anch. Subst.	Transmission	Load Growth	\$632,000	\$0	\$0	\$0	\$0
09.0452	South Anchorage Bulk Station	Transmission	Load Growth	\$6,602,000	\$203,000	\$0	\$0	\$0
10.0239	138kV Yard @ IGT	Transmission	Operating Efficiency	\$0	\$0	\$100,000	\$6,320,000	\$0
10.0593	Beluga Line #3, Str 8-2	Transmission	Reliability	\$216,000	\$0	\$0	\$0	\$0
10.0594	115kV Glacier Creek - Str. 32-6	Transmission	Reliability	\$330,100	\$0	\$0	\$0	\$0
10.0601	Aircraft Warning Marker Replacement	Transmission	Safety	\$52,500	\$54,000	\$54,000	\$54,000	\$54,000
10.0702	South Anch. Loop - Univ SS & HQ Modifications	Transmission	Load Growth	\$134,000	\$0	\$0	\$0	\$0
10.0727	New 138kV Huffman to South Anchorage	Transmission	Load Growth	\$575,000	\$0	\$0	\$0	\$0
10.0848	Raptor Protection	Transmission	Load Growth	\$551,000	\$3,042,000	\$2,480,000	\$0	\$0
10.0858	Beluga 138kV Relay & Control Upgrade Phase II	Transmission	Agency	\$50,500	\$51,000	\$51,000	\$51,000	\$51,000
10.0909	Beluga 230kV Relay & Control Upgrade Phase II	Transmission	R&R Transmission	\$120,400	\$0	\$0	\$0	\$0
10.0945	Teeland Relay & Control Upgrades	Transmission	R&R Transmission	\$120,400	\$0	\$0	\$0	\$0
10.0960	Quartz Creek Relay & Control Upgrades	Transmission	R&R Transmission	\$0	\$0	\$467,400	\$0	\$771,000
10.0970	230kV BZO Breaker Replacements	Transmission	R&R Transmission	\$906,800	\$883,800	\$883,800	\$0	\$0
10.0971	Bernice Lake Alternate Station Service	Transmission	R&R Transmission	\$0	\$42,970	\$0	\$0	\$0
TRANSMISSION PROJECTS SUBTOTAL				\$10,290,700	\$4,460,762	\$4,036,200	\$6,425,000	\$876,000

GENERATION PROJECTS

12.0317	Plant Security Phase II	Generation	Safety	\$120,000	\$0	\$0	\$0	\$0
12.0318	Beluga Air System Dryer Addition	Generation	R&R Generation	\$36,000	\$0	\$0	\$0	\$0
12.0320	Beluga Enstar Gas Controls	Generation	R&R Generation	\$22,200	\$0	\$0	\$0	\$0
12.0321	Beluga Unit 3 Relay & Control Upgrade	Generation	R&R Generation	\$201,000	\$0	\$0	\$0	\$0
12.0552	Beluga U6&U7 Fire Suppression	Generation	R&R Generation	\$154,000	\$0	\$0	\$0	\$0
12.0620	Beluga Unit 7 Annual - SRU (LCI & Hex Rings Net of Refurbished)	Generation	Capitalized Maint Generation	\$1,191,000	\$0	\$0	\$0	\$0
12.0626	Beluga Unit 5 HGP Inspection	Generation	Capitalized Maint Generation	\$680,000	\$0	\$0	\$0	\$0
12.0650	Beluga Unit 3 Turbine Controls	Generation	R&R Generation	\$1,395,000	\$0	\$0	\$0	\$0
12.0651	Beluga Unit 5 Controls Upgrade	Generation	R&R Generation	\$113,000	\$0	\$0	\$0	\$0
12.0671	Beluga Mezzanine Fire Suppression	Generation	R&R Generation	\$12,000	\$0	\$0	\$0	\$0
12.0783	Beluga Unit 3 Hot Gas Path Inspection - SRU Project (Net of refurbished parts)	Generation	Capitalized Maint Generation	\$527,000	\$0	\$0	\$0	\$0
12.0851	Beluga Unit 1 Hot Gas Path Inspection - SRU Project	Generation	Capitalized Maint Generation	\$0	\$0	\$0	\$323,000	\$0
12.0852	Beluga Unit 2 Hot Gas Path Inspection - SRU Project	Generation	Capitalized Maint Generation	\$0	\$0	\$323,000	\$0	\$0
12.0853	Beluga Unit 6 Major Overhaul - SRU Project (Net of refurbished parts)	Generation	Capitalized Maint Generation	\$0	\$7,300,000	\$0	\$0	\$0
12.0854	Beluga Unit 7 Rotor Overhaul - SRU Project (Net of refurbished parts)	Generation	Capitalized Maint Generation	\$0	\$0	\$0	\$6,500,000	\$0
12.0856	Beluga Unit 5 Major Overhaul - SRU Project (Net of refurbished parts)	Generation	Capitalized Maint Generation	\$0	\$0	\$3,500,000	\$0	\$0
12.0857	Beluga Unit 8 Major Life Extension - SRU Project	Generation	Capitalized Maint Generation	\$0	\$0	\$0	\$2,500,000	\$0
12.0911	IGT Unit 1 Relay Upgrade	Generation	R&R Generation	\$0	\$125,000	\$0	\$0	\$0
12.0912	IGT Unit 2 Relay Upgrade	Generation	R&R Generation	\$0	\$125,000	\$0	\$0	\$0
New1	New Generation	Generation	Operating Efficiency	\$470,000	\$3,090,000	\$51,800,000	\$44,760,000	\$28,420,000
GENERATION PROJECTS SUBTOTAL				\$4,921,200	\$10,640,000	\$55,623,000	\$54,083,000	\$28,420,000

SCADA PROJECTS

16.0919	SCADA Communications Upgrades	SCADA	R&R Transmission	\$125,000	\$163,000	\$187,000	\$0	\$0
16.0942	SCADA/EMS Master Migration	SCADA	R&R Transmission	\$187,700	\$778,000	\$752,000	\$366,000	\$0
SCADA PROJECTS SUBTOTAL				\$312,700	\$941,000	\$939,000	\$366,000	\$0

Budget Item	Budget Item Title	Function	Category	2005	2006	2007	2008	2009
TELECOMMUNICATIONS PROJECTS								
16.0914	Communications Power Improvements	Telecom	R&R Transmission	\$114,700	\$105,000	\$62,000	\$50,300	\$50,300
16.0916	Beluga Plant PA Replacement	Telecom	Safety	\$94,900	\$0	\$0	\$0	\$0
16.0918	Station Operations LAN Infrastructure	Telecom	Reliability	\$0	\$121,287	\$37,000	\$37,100	\$0
16.0920	Building "A" SCADA UPS	Telecom	R&R Transmission	\$96,000	\$0	\$0	\$0	\$0
16.0931	Radio Coverage Improvements	Telecom	R&R Transmission	\$29,600	\$0	\$0	\$0	\$0
16.0934	Communications Site Fire Improvements	Telecom	Safety	\$119,500	\$0	\$0	\$0	\$0
16.0937	Paging System Upgrade	Telecom	R&R Transmission	\$0	\$48,008	\$0	\$0	\$0
16.0939	ML&P Microwave	Telecom	R&R Transmission	\$0	\$145,000	\$0	\$0	\$0
16.0941	Moose Pass & Tyonek UHF Radio Site Additions	Telecom	Safety	\$51,100	\$79,000	\$0	\$0	\$0
16.0943	Turnagain Arm Comm Improvements	Telecom	Operating Efficiency	\$70,700	\$80,000	\$0	\$0	\$0
16.0965	Beluga Communications Tower Replacement	Telecom	Safety	\$215,600	\$0	\$0	\$0	\$0
16.0966	Berice Power Plant Telephony Upgrade	Telecom	R&R General Plant	\$0	\$26,728	\$0	\$0	\$0
16.0967	Centralized Directory Database	Telecom	R&R General Plant	\$0	\$39,270	\$0	\$0	\$0
16.0968	Cooper Lake Dam Failure Monitoring System	Telecom	R&R General Plant	\$77,000	\$0	\$0	\$0	\$0
16.0969	Headquarters PBX Communications Server Revision	Telecom	R&R General Plant	\$0	\$29,092	\$0	\$0	\$0
16.0972	Headquarters Voicemail System Upgrade	Telecom	R&R General Plant	\$0	\$35,980	\$0	\$0	\$0
TELECOMMUNICATIONS PROJECTS SUBTOTAL				\$869,100	\$709,365	\$99,000	\$87,400	\$50,300
DEFERRED DEBIT PROJECTS								
20.0108	Cooper Lake Relicensing	Energy Supply	Agency	\$1,098,000	\$254,000	\$0	\$0	\$0
20.0104	GIS Integration	Info. Services	Software Implementation/Upgrade	\$153,500	\$0	\$0	\$0	\$0
20.0142	RCM/MMW Software Implementation	Info. Services	Software Implementation/Upgrade	\$162,000	\$154,000	\$0	\$0	\$0
20.0106	Cascade Implementation - ES	Info. Services	Software Implementation/Upgrade	\$113,000	\$0	\$0	\$0	\$0
DEFERRED DEBIT PROJECTS SUBTOTAL				\$1,526,500	\$408,000	\$0	\$0	\$0
2005 - 2009 CAPITAL IMPROVEMENT PROGRAM GRAND TOTAL				\$3,302,273,300	\$30,558,747	\$68,228,000	\$69,708,300	\$45,055,000

Capital Improvement Plan
2005 to 2009 By Business Objective

Budget Item	Budget Item Title	Function	Category	2005	2006	2007	2008	2009
CAPITALIZED MAINTENANCE PROJECTS								
12.0620	Beluga Unit 7 Annual - SRU (LCI & Hex Rings Net of Refurbished)	Generation	Capitalized Maint Generation	\$1,191,000	\$0	\$0	\$0	\$0
12.0626	Beluga Unit 5 HGP Inspection	Generation	Capitalized Maint Generation	\$680,000	\$0	\$0	\$0	\$0
12.0783	Beluga Unit 3 Hot Gas Path Inspection (Net of refurbished parts)	Generation	Capitalized Maint Generation	\$527,000	\$0	\$0	\$0	\$0
12.0851	Beluga Unit 1 Hot Gas Path Inspection - SRU Project	Generation	Capitalized Maint Generation	\$0	\$0	\$0	\$323,000	\$0
12.0852	Beluga Unit 2 Hot Gas Path Inspection - SRU Project	Generation	Capitalized Maint Generation	\$0	\$0	\$323,000	\$0	\$0
12.0853	Beluga Unit 6 Major Overhaul - SRU Project (Net of refurbished parts)	Generation	Capitalized Maint Generation	\$0	\$7,300,000	\$0	\$0	\$0
12.0854	Beluga Unit 7 Rotor Overhaul - SRU Project (Net of refurbished parts)	Generation	Capitalized Maint Generation	\$0	\$0	\$0	\$6,500,000	\$0
12.0856	Beluga Unit 5 Major Overhaul - SRU Project (Net of refurbished parts)	Generation	Capitalized Maint Generation	\$0	\$0	\$3,500,000	\$0	\$0
12.0857	Beluga Unit 8 Major Life Extension - SRU Project	Generation	Capitalized Maint Generation	\$0	\$0	\$0	\$2,500,000	\$0
CAPITALIZED MAINTENANCE PROJECTS SUBTOTAL				\$2,498,000	\$7,300,000	\$3,823,000	\$9,323,000	\$0

SAFETY PROJECTS

03.0182	Code Violation Corrections	Distribution	Safety	\$48,000	\$50,000	\$50,000	\$50,000	\$50,000
10.0601	Aircraft Warning Marker Replacement	Transmission	Safety	\$52,500	\$54,000	\$54,000	\$54,000	\$54,000
12.0317	Plant Security Phase II	Generation	Safety	\$120,000	\$0	\$0	\$0	\$0
16.0916	Beluga Plant PA Replacement	Telecom	Safety	\$94,900	\$0	\$0	\$0	\$0
16.0934	Communications Site Fire Improvements	Telecom	Safety	\$119,500	\$0	\$0	\$0	\$0
16.0941	Moose Pass & Tyonek UHF Radio Site Additions	Telecom	Safety	\$51,100	\$79,000	\$0	\$0	\$0
16.0965	Beluga Communications Tower Replacement	Telecom	Safety	\$215,600	\$0	\$0	\$0	\$0
SAFETY PROJECTS SUBTOTAL				\$701,600	\$183,000	\$104,000	\$104,000	\$104,000

AGENCY PROJECTS

03.0485	Misc. State and Muni. Relocation Projects (0% non-reim only)	Reimb Relocates	Agency	\$156,000	\$156,000	\$156,000	\$156,000	\$156,000
03.0485M	West No Lights Relocation - Dist (0% non-reim only)	Reimb Relocates	Agency	\$262,800	\$0	\$0	\$0	\$0
03.0810	Municipal Undergrounding	Distribution	Agency	\$600,000	\$600,000	\$0	\$0	\$0
03.0811	State Undergrounding Requirement	Distribution	Agency	\$400,000	\$400,000	\$400,000	\$400,000	\$400,000
10.0848	Raptor Protection	Transmission	Agency	\$50,500	\$51,000	\$51,000	\$51,000	\$51,000
AGENCY PROJECTS SUBTOTAL				\$1,469,300	\$1,207,000	\$607,000	\$607,000	\$607,000

NEW SERVICES PROJECTS

01.0367	OH Line Extensions - Distribution (66% non-reim only)	Distribution	New Services	\$157,000	\$161,000	\$161,000	\$161,000	\$161,000
01.0368	UG Line Extensions - Distribution (66% non-reim only)	Distribution	New Services	\$2,479,000	\$2,513,000	\$2,513,000	\$2,513,000	\$2,513,000
01.0581	Operations Service Connects (incl Coreflo)	Distribution	New Services	\$1,665,000	\$1,726,000	\$1,726,000	\$1,726,000	\$1,726,000
CapMeter	Capitalized Meters/Transformers	Distribution	New Services	\$1,340,100	\$1,422,000	\$1,422,000	\$1,422,000	\$1,422,000
NEW SERVICES PROJECTS SUBTOTAL				\$5,641,100	\$5,822,000	\$5,822,000	\$5,822,000	\$5,822,000

Capital Improvement Plan
2005 to 2009 By Business Objective

Budget Item	Budget Item Title	Function	Category	2005	2006	2007	2008	2009
LOAD GROWTH PROJECTS								
02.0384	Abbott Loop Distr. Subst. Feeders	Distribution	Load Growth	\$0	\$0	\$0	\$94,500	\$1,064,300
02.0745	Postmark Distribution Substation Feeders	Distribution	Load Growth	\$212,000	\$956,000	\$0	\$0	\$0
02.0787	Dowling 612 Underground Feeder Circuit	Distribution	Load Growth	\$772,600	\$0	\$0	\$0	\$0
03.0225	12.5 & 25kV Distribution Reconductoring	Distribution	Load Growth	\$0	\$0	\$200,000	\$200,000	\$200,000
03.0543	Dave's Creek 352 Re-Energize "B" Phase	Distribution	Load Growth	\$58,300	\$59,800	\$60,000	\$60,000	\$0
04.0428	Abbott Loop Substation	Distribution Substation	Load Growth	\$0	\$0	\$29,000	\$187,000	\$3,307,000
05.0746	Postmark 138/12.5kV Substation	Distribution Substation	Load Growth	\$431,000	\$3,646,000	\$0	\$0	\$0
05.0825	Dowling Substation 612 Breaker	Distribution Substation	Load Growth	\$384,000	\$0	\$0	\$0	\$0
05.0847	Airport Substation 412 Breaker	Distribution Substation	Load Growth	\$284,000	\$0	\$0	\$0	\$0
08.0475	138 kV International Subst. to So. Anch. Subst.	Transmission	Load Growth	\$632,000	\$0	\$0	\$0	\$0
09.0452	South Anchorage Bulk Station	Transmission	Load Growth	\$6,602,000	\$203,000	\$0	\$0	\$0
10.0702	South Anch. Loop - Univ SS & HQ Modifications	Transmission	Load Growth	\$134,000	\$0	\$0	\$0	\$0
10.0703	South Anch. Loop - Pt. MacKenzie Modifications	Transmission	Load Growth	\$575,000	\$0	\$0	\$0	\$0
10.0727	New 138kV Huffman to South Anchorage	Transmission	Load Growth	\$551,000	\$3,042,000	\$2,480,000	\$0	\$0
11.0386	34.5kV Subtrans OH Reconductoring	Subtransmission	Load Growth	\$0	\$0	\$0	\$0	\$2,184,000
11.0487	South Anch Sub 34.5kV Feeders	Subtransmission	Load Growth	\$556,000	\$0	\$0	\$0	\$0
11.0491	34kV Reconductor-Sand Lake Sub to 94th Ave	Subtransmission	Load Growth	\$0	\$0	\$0	\$803,300	\$0
LOAD GROWTH PROJECTS SUBTOTAL				\$11,191,900	\$7,906,800	\$2,769,000	\$1,344,800	\$6,755,300

R&R GENERAL PLANT PROJECTS

16.0966	Bernice Power Plant Telephony Upgrade	Telecom	R&R General Plant	\$0	\$26,728	\$0	\$0	\$0
16.0967	Centralized Directory Database	Telecom	R&R General Plant	\$0	\$39,270	\$0	\$0	\$0
16.0968	Cooper Lake Data Failure Monitoring System	Telecom	R&R General Plant	\$77,000	\$0	\$0	\$0	\$0
16.0969	Headquarters PBX Communications Server Revision	Telecom	R&R General Plant	\$0	\$29,092	\$0	\$0	\$0
16.0972	Headquarters Voicemail System Upgrade	Telecom	R&R General Plant	\$0	\$35,980	\$0	\$0	\$0
R&R GENERAL PLANT PROJECTS SUBTOTAL				\$77,000	\$131,070	\$0	\$0	\$0

R&R DISTRIBUTION PROJECTS

03.0820	IGT 34.5kV Gelayway Replacements	Subtransmission	R&R Distribution	\$0	\$0	\$0	\$160,300	\$1,185,600
05.0380	Portage Subst Switchgear Roof	Distribution Substation	R&R Distribution	\$79,000	\$0	\$0	\$0	\$0
05.0488	Alternate Station Service	Distribution Substation	R&R Distribution	\$34,400	\$35,800	\$35,800	\$35,800	\$35,800
05.0957	Turnagain Relay and Control Upgrade	Distribution Substation	R&R Distribution	\$0	\$0	\$0	\$0	\$263,000
05.0959	Woodland Park Relay and Control Upgrade	Distribution Substation	R&R Distribution	\$0	\$0	\$0	\$0	\$263,000
R&R DISTRIBUTION PROJECTS SUBTOTAL				\$113,400	\$35,800	\$35,800	\$196,100	\$1,747,400

R&R GENERATION PROJECTS

12.0318	Beluga Air System Dryer Addition	Generation	R&R Generation	\$36,000	\$0	\$0	\$0	\$0
12.0320	Beluga Enstar Gas Controls	Generation	R&R Generation	\$22,200	\$0	\$0	\$0	\$0
12.0321	Beluga Unit 3 Relay & Control Upgrade	Generation	R&R Generation	\$201,000	\$0	\$0	\$0	\$0
12.0552	Beluga U6&U7 Fire Suppression	Generation	R&R Generation	\$154,000	\$0	\$0	\$0	\$0
12.0650	Beluga Unit 3 Turbine Controls	Generation	R&R Generation	\$1,395,000	\$0	\$0	\$0	\$0
12.0651	Beluga Unit 5 Controls Upgrade	Generation	R&R Generation	\$113,000	\$0	\$0	\$0	\$0
12.0671	Beluga Mezzanine Fire Suppression	Generation	R&R Generation	\$12,000	\$0	\$0	\$0	\$0
12.0911	IGT Unit 1 Relay Upgrade	Generation	R&R Generation	\$0	\$125,000	\$0	\$0	\$0
12.0912	IGT Unit 2 Relay Upgrade	Generation	R&R Generation	\$0	\$125,000	\$0	\$0	\$0
R&R GENERATION PROJECTS SUBTOTAL				\$1,933,200	\$250,000	\$0	\$0	\$0

Capital Improvement Plan
2005 to 2009 By Business Objective

Budget Item	Budget Item Title	Function	Category	2005	2006	2007	2008	2009
R&R TRANSMISSION PROJECTS								
10.0858	Beluga 138kV Relay & Control Upgrade Phase II	Transmission	R&R Transmission	\$120,400	\$0	\$0	\$0	\$0
10.0909	Beluga 230kV Relay & Control Upgrade Phase II	Transmission	R&R Transmission	\$120,400	\$0	\$0	\$0	\$0
10.0945	Teeland Relay & Control Upgrades	Transmission	R&R Transmission	\$0	\$0	\$0	\$0	\$771,000
10.0960	Quartz Creek Relay & Control Upgrades	Transmission	R&R Transmission	\$0	\$0	\$467,400	\$0	\$0
10.0970	230kV BZO Breaker Replacements	Transmission	R&R Transmission	\$906,800	\$883,800	\$883,800	\$0	\$0
10.0971	Bernice Lake Alternate Station Service	Transmission	R&R Transmission	\$0	\$42,970	\$0	\$0	\$0
16.0914	Communications Power Improvements	Telecom	R&R Transmission	\$114,700	\$105,000	\$62,000	\$50,300	\$50,300
16.0919	SCADA Communications Upgrades	SCADA	R&R Transmission	\$125,000	\$163,000	\$187,000	\$0	\$0
16.0920	Building "A" SCADA UPS	Telecom	R&R Transmission	\$96,000	\$0	\$0	\$0	\$0
16.0931	Radio Coverage Improvements	Telecom	R&R Transmission	\$29,600	\$0	\$0	\$0	\$0
16.0937	Paging System Upgrade	Telecom	R&R Transmission	\$0	\$48,008	\$0	\$0	\$0
16.0939	ML&P Microwave	Telecom	R&R Transmission	\$0	\$145,000	\$0	\$0	\$0
16.0942	SCADA/EMS Master Migration	SCADA	R&R Transmission	\$187,700	\$778,000	\$752,000	\$366,000	\$0
R&R TRANSMISSION PROJECTS SUBTOTAL				\$1,700,600	\$2,165,778	\$2,352,200	\$416,300	\$821,300

RELIABILITY PROJECTS

01.0667	Distr. Primary Loop Closures	Distribution	Reliability	\$85,100	\$52,500	\$52,500	\$52,500	\$52,500
02.0145	Alternate 35kV Supply to Baxter Substation	Subtransmission	Reliability	\$1,880,000	\$896,000	\$0	\$0	\$0
02.0817	Airport 412 Feeder Getaway	Distribution	Reliability	\$110,000	\$0	\$0	\$0	\$0
03.0509	UG Cable Rehabilitation Project	Distribution	Reliability	\$0	\$400,000	\$400,000	\$400,000	\$400,000
03.0538	UG Cable Replacement	Distribution	Reliability	\$0	\$250,000	\$250,000	\$250,000	\$250,000
03.0541	Bombrook Subd. Addn #3 - 3Ph Cable Replacement	Distribution	Reliability	\$240,000	\$0	\$0	\$0	\$0
03.0866	Hope Line Reliability (100% Grant Reimb)	Distribution	Reliability	\$0	\$0	\$0	\$0	\$0
05.0726	Six Mile East Bus Improvements	Transmission	Reliability	\$0	\$184,012	\$0	\$0	\$0
07.0849	Street Light Conductor Replacement	Distribution	Reliability	\$72,800	\$75,500	\$75,500	\$75,500	\$75,500
10.0593	Beluga Line #3, Str 8-2	Transmission	Reliability	\$216,000	\$0	\$0	\$0	\$0
10.0594	11.5kV Glacier Creek, Str. 32-6	Transmission	Reliability	\$330,100	\$0	\$0	\$0	\$0
16.0918	Station Operations LAN Infrastructure	Telecom	Reliability	\$0	\$121,287	\$37,000	\$37,100	\$0
RELIABILITY PROJECTS SUBTOTAL				\$2,934,000	\$1,979,299	\$815,000	\$815,100	\$778,000

OPERATING EFFICIENCY PROJECTS

10.0239	138kV Yard @ IGT	Transmission	Operating Efficiency	\$0	\$0	\$100,000	\$6,320,000	\$0
16.0943	Turnagain Arm Comm Improvements	Telecom	Operating Efficiency	\$70,700	\$80,000	\$0	\$0	\$0
New1	New Generation	Generation	Operating Efficiency	\$470,000	\$3,090,000	\$51,800,000	\$44,760,000	\$28,420,000
OPERATING EFFICIENCY PROJECTS SUBTOTAL				\$540,700	\$3,170,000	\$51,900,000	\$51,080,000	\$28,420,000

DEFERRED DEBIT PROJECTS

20.0108	Cooper Lake Relicensing	Energy Supply	Agency	\$1,098,000	\$254,000	\$0	\$0	\$0
20.0104	GIS Integration	Info. Services	Software Implementation/Upgrade	\$153,500	\$0	\$0	\$0	\$0
20.0142	RCM/MMW Software Implementation	Info. Services	Software Implementation/Upgrade	\$162,000	\$154,000	\$0	\$0	\$0
20.0106	Cascade Implementation - ES	Info. Services	Software Implementation/Upgrade	\$113,000	\$0	\$0	\$0	\$0
DEFERRED DEBIT PROJECTS SUBTOTAL				\$1,526,500	\$408,000	\$0	\$0	\$0

2005 - 2009 CAPITAL IMPROVEMENT PROGRAM GRAND TOTAL

\$30,227,300	\$30,558,747	\$68,228,000	\$69,708,300	\$45,055,000
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