



Portland General Electric Company
121 SW Salmon Street • Portland, Oregon 97204
PortlandGeneral.com

May 9, 2008

Email/US Postal Mail

Vikie Bailey-Goggins
Administrator
550 Capitol Street, N.E., Ste 215
Salem, OR 97301-2551

RE: AMI Project Quarterly Status Update – 2008-Q1

OPUC Order No. 08-245 adopted the AMI Conditions filed with the Joint Party stipulation. The provisions of the Joint Party stipulation require that PGE file quarterly status reports throughout the deployment period with the Public Utility Commission of Oregon, detailing:

- Progress under the implementation plans, including any significant changes in timing, budget, or scope;
- Number of meters installed; and
- Actual costs by category.

Pursuant to the Order, PGE provides the attached Quarterly Status Report for the quarter ending March 31, 2008.

If you have any questions or require further information, please call Alex Tooman at (503) 464-7623. Please direct all formal correspondence and requests to the following email address pge.opuc.filings@pgn.com

Sincerely,

A handwritten signature in black ink, appearing to read "Patrick G. Hager", written in a cursive style.

Patrick G. Hager
Manager, Regulatory Affairs

cc: UE 189 Service List



Quarterly Report to the OPUC

For the quarter ending March 31, 2008

Advanced Metering Infrastructure (AMI) Project

Summary: This project carries out activities to deploy a two-way, fixed-network AMI system throughout PGE's service territory. Scope includes project planning, IT readiness, vendor selection & contracting, business process development, system acceptance testing, deployment of 852,000 meters and related radio-frequency (RF) communications equipment, and evaluation of certain customer & systems-related benefits.

Project Start Date	Project Completion Date	# of AMI Meters Deployed to Date	# of Meters Read by Network for Billing	JMR Routes Remaining with PGE	JMR Routes Remaining with NNG
August 2005	September 2010	0	0	1,691	568

Project Cost Summary	AMI Project Budget	Actual Cost to Date	Remaining Cost to Complete
Meters	\$ 107,698,170	\$ 126,977	\$ 107,571,193
IT	10,425,171	1,469,068	8,956,103
Network	7,059,223	233,356	6,825,867
Business Processes	6,067,900	1,486,375	4,581,525
Project Management	12,940,128	4,456,968	8,483,160
Capital Sub-total	132,231,273	3,715,370	128,515,903
O&M Total	11,959,319	4,057,374	7,901,945
Total Project Costs	\$ 144,190,592	\$ 7,772,744	\$ 136,417,848

Variance Explanation: On schedule, with no changes to scope or variances to project budget.

Project Milestones	Due Date	Status
▪ Begin System Acceptance Testing (SAT)	06/02/2008	16,000 meters to be deployed for functionality & end-to-end testing
▪ Complete System Acceptance Testing	12/31/2008	Final stages of test design and planning
▪ Begin Mass Meter Deployment	01/05/2009	Preliminary month-to-month deployment schedule prepared
▪ Complete RF Network Installation	12/31/2009	RF propagation study and tower location analyses nearing completion
▪ Complete Mass Meter Deployment	09/12/2010	To be followed by up to six-month system optimization process

Project Job Status	Due Date	Budget		Costs to Date	
		Capital	O&M	Capital	O&M
Meter Installation – SAT	09/2008	7,674,471	-	126,977	-
Meter Installation – Full Deployment	09/2010	100,023,699	-	0	-
<i>Meters Subtotals – Capital / O&M</i>		107,698,170	-	126,977	-
Meters – Total		107,698,170		126,977	
IT Infrastructure Support	09/2010	4,550,424	795,639	1,041,714	614
MDC – General AMI Requirements	01/2010	-	347,402	-	80,375
MDC – CS SAT Testing	12/2008	-	198,130	-	54,941
IT AMI Software	06/2010	2,387,406	15,501	163,246	-
Interval Date Storage & Usage	11/2009	2,130,669	-	128,178	-
<i>IT – Subtotals – Capital / O&M</i>		9,068,499	1,356,672	1,333,138	135,930
IT – Total		10,425,171		1,469,068	
Host System Installation – SAT	05/2008	500,000	-	233,356	-
Host System Installation – Full Deployment	12/2008	700,000	-	-	-
Tower Site Deployment	12/2009	5,122,821	736,402	-	-



Quarterly Report to the OPUC

For the quarter ending March 31, 2008

<i>Network – Subtotals – Capital / O&M</i>		6,322,821	736,402	233,356	-
Network – Total		7,059,223		233,356	
Automated Meter Exchange	06/2008	1,628,754	332,463	1,237,463	47,992
On Cycle Billing	06/2008	280,472	64,377	0	36,951
Routine Meter Exchange	08/2008	186,363	446,674	589	45,003
Remote Connect/Disconnect	04/2009	560,019	314,345	0	479
Customer-Selected Due Date	08/2009	151,433	216,319	0	0
Move-in/Move-out	01/2010	438,500	317,473	0	101
Lost Revenue Protection	01/2010	185,048	218,689	4,469	87,553
Meter Reading Process Redesign	09/2009	-	52,675	-	775
Information-Driven Energy Savings	08/2010	545,371	128,925	0	25,000
<i>Bus Processes – Subtotals Cap / O&M</i>		3,975,960	2,091,940	1,242,521	243,854
Business Processes – Total		6,067,900		1,486,375	
Project Office	09/2010	1,518,345	7,701,805	779,378	3,677,590
Contingencies	09/2010	3,647,478	72,500	0	0
<i>Project Mgmt – Subtotals Cap / O&M</i>		5,165,823	7,774,305	779,378	3,677,590
Project Management – Total		12,940,128		4,456,968	

Implementation Activities – 2005 to 2007

- Completed initial AMI business case and project plan (March 2005); updated AMI business case (August 2005)
- Received PGE Board approval and funding for initial phase of AMI project (August 2005)
- Initiated RFP processes for selection of AMI vendor (January 2006) and contract meter installer (July 2006)
- Completed IT readiness assessment and initial cost estimates (March 2006)
- Received PGE Board approval and funding for Phase 2 of AMI project (May 2006)
- Selected Sensus as preferred AMI vendor and initiated contract negotiations (August 2006)
- Initiated planning and development on seven core business processes (September 2006)
- Initiated radio frequency (RF) propagation analysis work with AMI vendor (December 2006)
- Submitted preliminary draft AMI Implementation Plans to OPUC (January 2007)
- Filed AMI tariff request with OPUC (March 2007)
- Completed first round of testing on automated meter exchange (AME) process (June 2007)
- Completed pre-contract scalability testing on vendor's AMI host system software (September 2007)
- Executed contracts with AMI vendor (Sensus) and contract meter installer (Wellington) (September 2007)
- Received initial AMI host system software version (1.2) (October 2007)

Implementation Activities – Q1 2008

- Received AMI host system software version 1.4 for testing; version 1.5 for use during SAT is due May 19
- Continued refinement of RF propagation analysis to determine tower locations for SAT/mass deployment phases
- Successfully tested proof of concept for interfaces between AMI vendor's system and PGE's meter data consolidator
- Entered testing requirements and test plans into TestDirector system in preparation for SAT phase
- Met with NW Natural (NWN) to plan orderly transition from joint meter reading (JMR) program
- Continue working with affected employee groups as part of employee transition plan activity
- Completed customer focus groups on AMI communications and field deployment practices (Feb. 25-27)
- Completed second round on-site assessments of vendor's manufacturing facilities (week of March 17)
- Ordered first sets of AMI meters for SAT; meter deliveries expected May 5, May 12 and June 9
- Initiated meeting to prepare for training for Community Action Agencies



Quarterly Report to the OPUC

For the quarter ending March 31, 2008

Planned Activities – Q2 2008

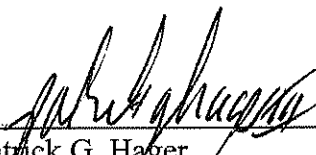
- Install version 1.5 of AMI vendor's host system software in readiness for SAT
- Receive/test initial orders of AMI meters
- Begin meter deployment in three SAT test areas: inner SE Portland, downtown Portland, Banks/Gales Creek rural area
- Complete implementation of system to facilitate automation of meter exchange data transfer into PGE's meter inventory, meter data management and customer information systems during SAT and mass deployment phases
- Complete deployment of RF towers for SAT
- Complete requirements gathering and submit revised project plans to OPUC (mid-July) for business processes
- Continue site reviews and documentation of tower locations for mass deployment
- Conduct pre-SAT employee training (Customer Service, Meter Services, Distribution, Billing & Credit, etc.)
- Finalize detailed test plans, testing requirements and ready test scripts for SAT; initiate testing activity
- Complete work with OPUC on revisions to Periodic and Sample Testing requirements
- Complete long-range staffing plan for Meter Reading and Field Collections

Contacts: Joel Westvold, AMI Director, 503-464-7583
Alex Tooman, Rates & Regulatory Affairs, 503-464-7623

CERTIFICATE OF SERVICE

I hereby certify that I have on May 9, 2008 caused the following: **PORTLAND GENERAL ELECTRIC COMPANY'S UE 189, AMI PROJECT QUARTERLY STATUS UPDATE 2008 Q1** to be served to the following parties or attorneys listed on the attached service list by electronic mail and by First Class US Mail, postage prepaid and properly addressed, to those parties on the attached service list who have not waived paper service.

Dated this 9th day of May, 2008.



Patrick G. Hager
Manager, Regulatory Affairs
On behalf of Portland General Electric Company



eDockets

Docket Summary

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Docket No: UE 189 **Docket Name:** PORTLAND GENERAL ELECTRIC

[Print Summary](#)

Subject Company: PORTLAND GENERAL ELECTRIC

In the Matter of PORTLAND GENERAL ELECTRIC COMPANY Request to Add Schedule 111, Advanced Metering Infrastructure (AMI) Filed by Pamela G. Lesh. (See Initial Utility Filing for electronic version.)

Filing Date: 3/7/2007

Advice No: 07-08

Effective: 6/1/2008

Expiration:

Status: PENDING

Final Order: 08-245

Order Signed: 5/5/2008

[Email Service List \(semi-colon delimited\)](#) [Email Service List \(comma delimited\)](#)
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ACTIONS		SERVICE LIST (Parties)		SCHEDULE
W=Waive Paper service	C=Confidential HC=Highly Confidential		Sort by Last Name	Sort by Company Name
W	CITIZENS' UTILITY BOARD OF OREGON			
	LOWREY R BROWN (C) UTILITY ANALYST	610 SW BROADWAY - STE 308 PORTLAND OR 97205 lowrey@oregoncub.org		
	JASON EISDORFER (C) ENERGY PROGRAM DIRECTOR	610 SW BROADWAY STE 308 PORTLAND OR 97205 jason@oregoncub.org		
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	COMMUNITY ACTION DIRECTORS OF OREGON			
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W	DEPARTMENT OF JUSTICE			
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