RL-675 (03/99)

United States Government **Department of Energy**

memorandum

Office of River Protection

DATE: MAR 23 2005

REPLY TO ATTN OF: 05-ORP-017 Chairman, Federal Technical Capability Panel

SUBJECT: QUARTERLY REPORT ON FEDERAL TECHNICAL CAPABILITY

TO: Distribution – See Attached

This Quarterly Report on the Federal Technical Capability Program (FTCP) contains information on the status of qualifications in the Technical Qualification Program (TQP) and technical skill gaps as of December 31, 2004.

Attachment 1 provides the Status of Qualifications in the TQP. The U.S. Department of Energy (DOE) goal is to exceed an 80% fully qualified rate for all personnel in the TQP. Currently, the DOE qualification rate is 86%, a slight increase from last quarter (1% increase) but up from 79% a year ago. Thirteen of 19 offices meet the 80% qualified goal. Of the six offices that do not meet the goal, six are within the National Nuclear Security Administration (NNSA). A second goal is that there will be no personnel participating in the TQP who are overdue in their qualifications. Currently, eight offices have overdue personnel in their TQP qualifications.

Attachment 2 provides the status of qualifications for Safety System Oversight (SSO) personnel. These personnel are responsible for oversight of safety systems in nuclear facilities. Qualification requirements were established in May 2004 with the issuance of DOE Manual 426.1-1A, *Federal Technical Capability Manual*. As of December 31, 2004, sites identified 89 SSO personnel, of which 14 are qualified. The typical qualification time is expected to take approximately one year for SSO personnel.

Attachment 3 provides the Status of Filling Technical Skill Gaps. These gaps were identified in the FTCP Report, *Updated Listing of Department Personnel Serving as Subject Matter Experts for Safety System Oversight*, dated September 30, 2003. The current gap is 4.9 Full Time Equivalent (FTE) positions, which is the same level as last quarter. The Oak Ridge Operations Office identified a new skill gap of one FTE in Fire Protection.

Attachment 4 provides charts of the status of qualification and technical skill gaps in the TQP and identifies qualification program trends.

If you have any questions or comments, please contact me, or your staff may contact Ted Wyka, (202) 586-3519.

Roy J. Schepens, Chairman
Federal Technical Capability Panel

Attachments (4):
1. Status of Qualifications in the TQP
2. Status of Qualifications for SSO Personnel
3. Status of Filling Technical Skill Gaps
4. Status Information Slides

cc w/attachs:
Administrator, NNSA (NA-1)
Under Secretary for Energy, Science and Environment (US-ESE)
FTCP Agents
S. J. Coleman, INNOV
T. A. Wyka, Jr., DR-1

MAR 2 3 2005

Distribution:
Deputy Secretary
Assistant Secretary for Environmental Management (EM)
Assistant Secretary for Environment, Safety, and Health (EH)
Deputy Administrator for Defense Programs, NNSA
Director, Office of Science (SC)
Director, Office of Nuclear Energy, Science and Technology (NE)
Director, Office of Management, Budget, and Evaluation (ME)
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Manager, Los Alamos Site Office (LASO)
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Manager, NNSA Service Center (NA-SC)
Manager, Oak Ridge Operations Office (OR)
Manager, Office of River Protection (ORP)
Manager, Ohio Field Office (OH)
Manager, Pantex Site Office (PXSO)
Manager, Richland Operations Office (RL)
Manager, Rocky Flats Project Office (RFPO)
Manager, Sandia Site Office (SSO)
Manager, Savannah River Operations Office (SR)
Manager, Savannah River Site Office (SRSO)
Manager, Y-12 Site Office (YSO)

Status of Qualifications in the Technical Qualification Program (TQP)

December 31, 2004
Update Frequency: Quarterly

Office		OVERALL TQP QUALIFICATIONS					
		Number of People in the TQP	Number Fully Qualified	Number Overdue	Percent Fully Qualified	80%?	Comments
National Nuclear Security Administration (NNSA)							
Los Alamos Site Office	LASO	51	35	1	69%		Projects 80% by June 2005
Livermore Site Office	LSO	36	25	1	69%		Projects 80% by April 2005. See Note 1
Nevada Site Office	NSO	66	59	1	89%	●	
Pantex Site Office	PXSO	51	36	0	71%		
Savannah River Site Office	SRSO	12	12	0	100%	●	
Sandia Site Office	SSO	24	14	1	58%		Projects 80% by June 2005
Y-12 Site Office	YSO	60	53	0	88%	●	
NNSA Headquarters	NA-HQ	72	49	6	68%		Projects 80% by April 2005
NNSA Service Center	NA-SC	42	31	2	74%		Projects 80% by June 2005
NNSA Totals		414	314	12	76%		
Environmental Management (EM)							
Carlsbad Field Office	CBFO	12	11	0	92%	●	
Ohio Field Office	OH	49	49	0	100%	●	
Office of River Protection	ORP	84	79	0	94%	●	
Richland Operations Office	RL	107	104	0	97%	●	
Rocky Flats Project Office	RFPO	24	19	5	79%	●	
Savannah River Ops. Office	SR	200	167	0	84%	●	
EM Headquarters	EM-HQ	10	9	0	90%	●	
EM Totals		486	438	5	90%	●	
Others							
Idaho Operations Office	NE-ID	104	97	1	93%	●	
Oak Ridge Operations Office	OR (SC)	177	159	0	90%	●	
Environment, Safety & Health	EH-HQ	62	62	0	100%	●	
Others Totals		343	318	1	93%		
DOE Total		**1243**	**1070**	**18**	**86%**		
DOE Goals		-	-	**0**	**80%**		

Notes:

* Due to the recent establishment of SSO program qualification requirements (May 2004), SSO Qualification Status is not being included in the "Overall TQP Qualifications" status

Note 1: At LSO, 4 people were added to the TQP and 1 was removed during the quarter.

Status of Qualifications in the Safety System Oversight (SSO) Program

December 31, 2004
Update Frequency: Quarterly

Office		OVERALL TQP QUALIFICATIONS					
		Number of SSO Personnel Needed	Number SSO Personnel Onboard	Number SSO Fully Qualified	Number SSO Overdue	Percent Fully Qualified	Status of SSO Assessments (Initial and Follow-up)
National Nuclear Security Administration (NNSA)							
Los Alamos Site Office	LASO	8	8	0	0	0%	Initial assessment is pending schedule coordination with Sandia Site Office
Livermore Site Office	LSO	7	7	0	0	0%	Initial assessment conducted
Nevada Site Office	NSO	7	7	0	0	0%	Additional analysis being conducted to review passive safety systems
Pantex Site Office	PXSO	4	4	2	0	50%	Initial assessment conducted
Savannah River Site Office	SRSO	2	1	0	0	0%	Initial assessment conducted
Sandia Site Office	SSO	2	2	0	0	0%	Initial assessment is pending schedule coordination with Sandia Site Office
Y-12 Site Office	YSO	6	6	0	0	0%	Initial assessment conducted
NNSA Headquarters	NA-HQ	0	0	0	0	0%	
NNSA Service Center	NA-SC	4	4	0	0	0%	Initial assessment conducted
NNSA Totals		40	39	2	0	5%	
Environmental Management (EM)							
Carlsbad Field Office	CBFO	5	5	5	0	100%	Initial assessment conducted
Ohio Field Office	OH	0	0	0	0	0%	Initial assessment conducted
Office of River Protection	ORP	10	10	0	0	0%	Initial assessment conducted
Richland Operations Office	RL	5	5	2	0	40%	Initial assessment conducted
Rocky Flats Project Office	RFPO	1.5	1.5	0	0	0%	Initial assessment conducted
Savannah River Ops. Office	SR	23	22	0	0	0%	Initial assessment conducted
EM Headquarters	EM-HQ	0	0	0	0	0%	
EM Totals		44.5	43.5	7	0	16%	
Others							
Idaho Operations Office	NE-ID	7	5	5	0	100%	Initial assessment conducted
Oak Ridge Operations Office	OR (SC)	2	2	0	0	0%	Initial assessment conducted
Environment, Safety & Health	EH-HQ	0	0	0	0	0%	
Others Totals		9	7	5	0	71%	
DOE Total		**93.5**	**89.5**	**14**	**0**	**16%**	
DOE Goals							

Notes:

* Due to the recent establishment of SSO program qualification requirements (May 2004), SSO Qualification Status is not being included in the "Overall TQP Qualifications" status

** ORP had one SSO qualiified in the Tank Farms Project; but subsequently transferred the individual to the WTP Project as an SSO

Status of Filling Technical Skill Gaps
December 31, 2004
Update Frequency: Quarterly

	SKILL GAPS IN EACH TECHNICAL AREA (Numbers Represent FTEs)																	
OFFICE	Mechanical Engineer		Electrical Engineer		Instrumentation & Control		Criticality Safety		Fire Protection		Civil, Structural Engineer & Natural Phenomena		Radiation Protection		Other		TOTAL GAPS	
	Baseline	Current	Baseline	Current	Baseline	Current	Baseline	Current	Baseline	Current	Baseline	Current	Baseline	Current	Baseline	Current	Baseline	Current
NNSA Offices																		
LASO	1.5	0	1	0	1	0							1	0			4.5	0
PXSO																	0	0
SSO					0.9	0.9											0.9	0.9
																	0	0
EM Offices																		
RL															0	1	0	1
SC Offices																		
ORO							0	1	0	2							0	3
DOE Totals	1.5	0	1	0	1.9	0.9	0	0	0	0	0	0	1	0			**5.4**	**4.9**

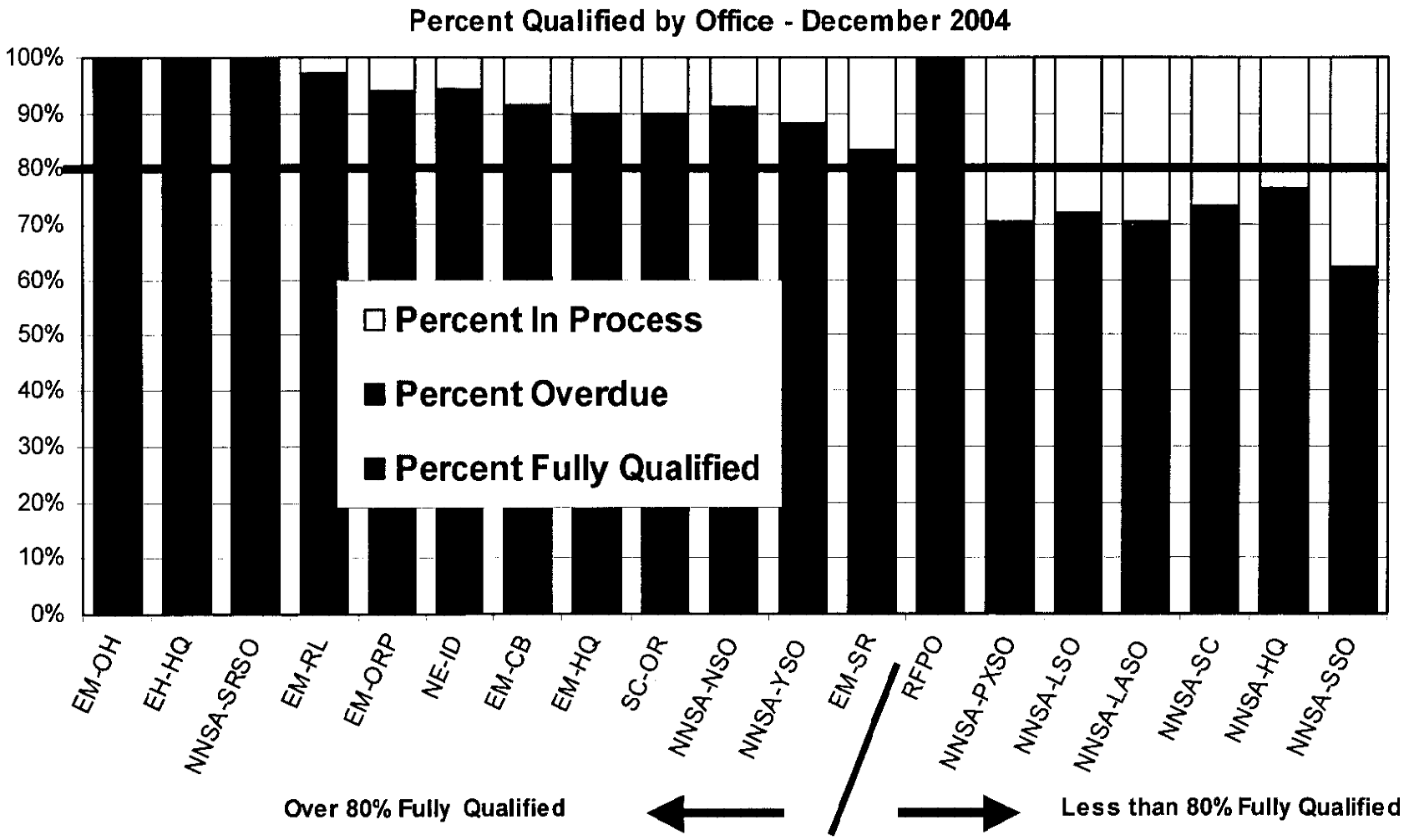
"Baseline" column represents gaps reported to the DNFSB in the September 30, 2003, letter from R. J. Schepens to J. T. Conway.

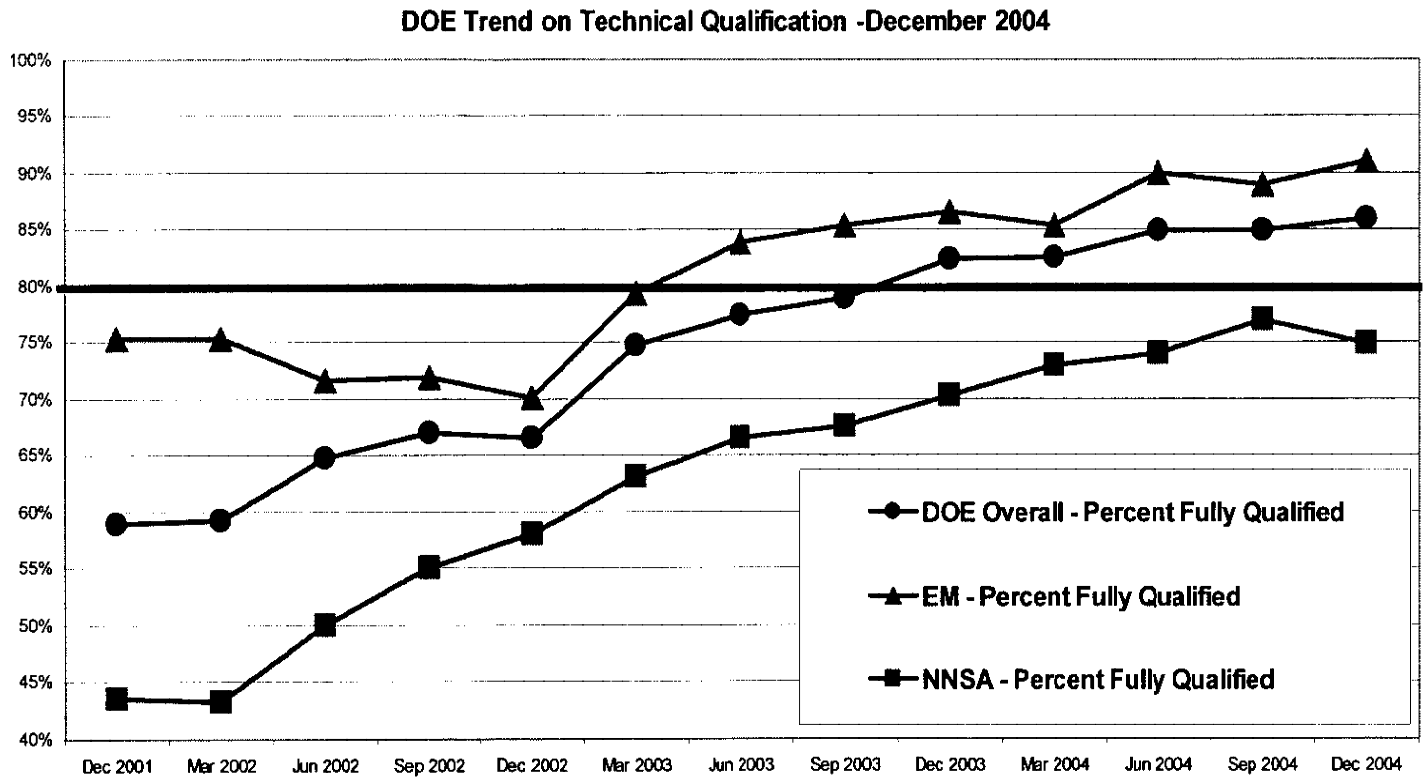
Notes/Status:

LASO: LASO skill responsibilities are filled through four sources: NNSA Service Center SMEs, LASO SMEs, LASO Facility Representatives, and LASO support contractors.

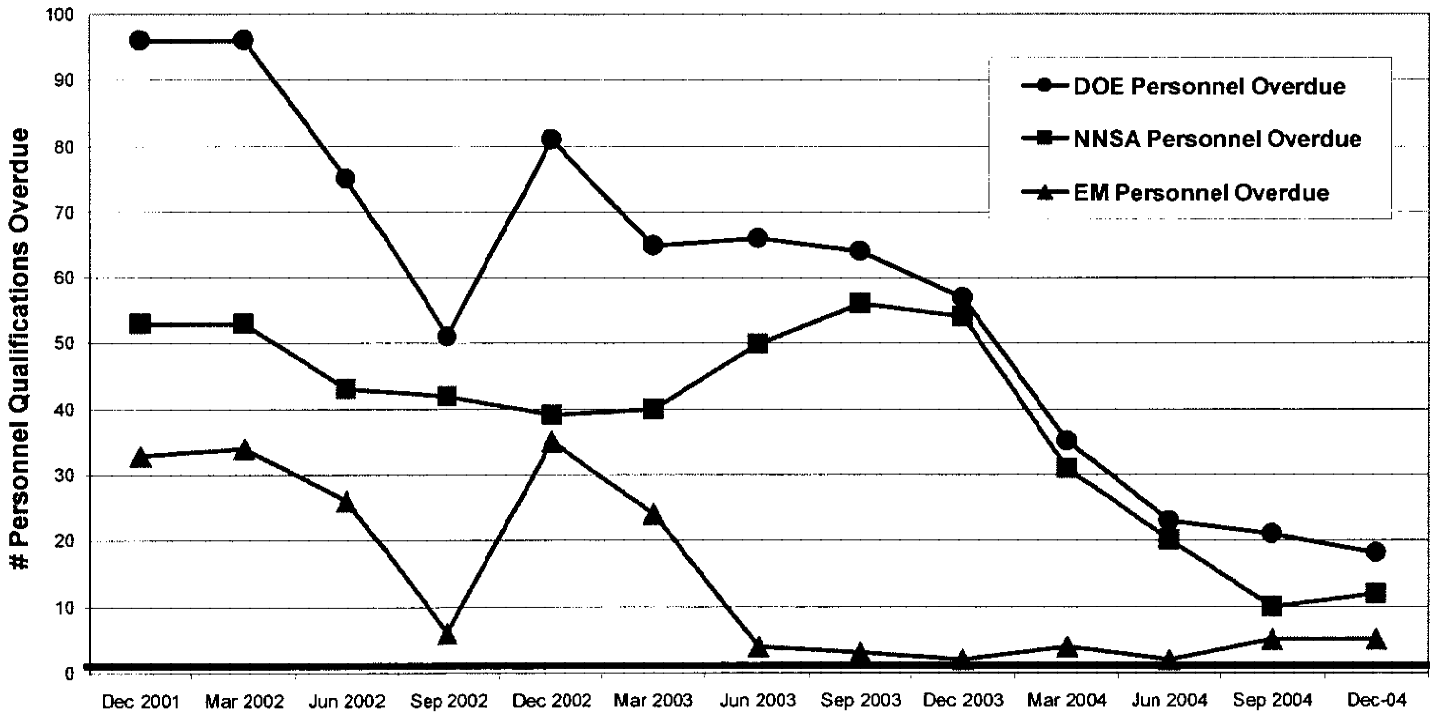
SSO: An I&C engineer accepted employment and began work in mid-October. A gap of 0 expected in the next quarter

RL: The Richland Operations Office is baselined for 1 Industrial Hygienist and currently has 0. EM has given RL permission obtain a replacement. It is unclear how long this action will take.


Percent Qualified by Office - December 2004
100%
90%
80%
70%
60%
50%
40%
30%
20%
10%
0%
Percent In Process
Percent Overdue
Percent Fully Qualified
EM-OH
EH-HQ
NNSA-SRSO
EM-RL
EM-ORP
NE-ID
EM-CB
EM-HQ
SC-OR
NNSA-NSO
NNSA-YSO
EM-SR
RFPO
NNSA-PXSO
NNSA-LSO
NNSA-LASO
NNSA-SC
NNSA-HQ
NNSA-SSO
Over 80% Fully Qualified
Less than 80% Fully Qualified


DOE Trend on Technical Qualification -December 2004
100%
95%
90%
85%
80%
75%
70%
65%
60%
55%
50%
45%
40%
Dec 2001
Mar 2002
Jun 2002
Sep 2002
Dec 2002
Mar 2003
Jun 2003
Sep 2003
Dec 2003
Mar 2004
Jun 2004
Sep 2004
Dec 2004
DOE Overall - Percent Fully Qualified
EM - Percent Fully Qualified
NNSA - Percent Fully Qualified

DOE Trend on Overdue Qualifications - December 2004



E-STARS™ Report
Task Detail Report
03/23/2005 1102

TASK INFORMATION			
Task#	ORP-MGR-2005-0007		
Subject	05-ORP-017 - Quarterly Report on FTCP		
Parent Task#		**Status**	CLOSED
Reference	05-ORP-017	**Due**	
Originator	Brazil, Kelly	**Priority**	None
Originator Phone	(509) 376-9318	**Category**	None
Origination Date	03/21/2005 1422	**Generic1**	
Remote Task#		**Generic2**	
Deliverable	None	**Generic3**	
Class	None	**View Permissions**	Normal
Instructions	This Letter/Memo is being routed hard copy. Please review and approve or disapprove and route to the next person on the list. bcc: ORP OFF File ORP MGR Rdg File RECORD NOTE: Ted Wyka, DNFSB Representatives Office, will distribute this memorandum to the Distribution List.		

ROUTING LISTS

1	Route List	Inactive
	• Schepens, Roy J - Assign - Cancelled - 03/23/2005 1102	

ATTACHMENTS

No Attachments

COMMENTS

Poster	Brazil, Kelly (Brazil, Kelly) - 03/23/2005 1103
	CLOSED
	Roy signed memo 3/23/05

TASK DUE DATE HISTORY

No Due Date History

SUB TASK HISTORY

No Subtasks

-- end of report --

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MAR 23 2005
DOE-ORP/ORPCC

E-STARS™ Report
Task Detail Report
03/21/2005 0226

TASK INFORMATION			
Task#	ORP-MGR-2005-0007		
Subject	05-ORP-017 - Quarterly Report on FTCP		
Parent Task#		**Status**	Open
Reference	05-ORP-017	**Due**	
Originator	Brazil, Kelly	**Priority**	None
Originator Phone	(509) 376-9318	**Category**	None
Origination Date	03/21/2005 1422	**Generic1**	
Remote Task#		**Generic2**	
Deliverable	None	**Generic3**	
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ROUTING LISTS

1	Route List	Active
	• Schepens, Roy J - Assign - Awaiting Response	

ATTACHMENTS

No Attachments

COMMENTS

No Comments

TASK DUE DATE HISTORY

No Due Date History

SUB TASK HISTORY

No Subtasks

-- end of report --

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