



**Department of Energy**  
Washington, DC 20585

September 29, 2005

**MEMORANDUM FOR DISTRIBUTION**

FROM: John D. Evans   
Facility Representative Program Manager  
Office of the Departmental Representative to the  
Defense Nuclear Facilities Safety Board (DR-1)

SUBJECT: Facility Representative Program Performance Indicators Quarterly Report,  
April – June 2005

Attached is the Facility Representative (FR) Program Performance Indicators Quarterly Report covering the period from April to June 2005. Data for these indicators are gathered by Field elements quarterly per DOE-STD-1063-2000, *Facility Representatives*, and reported to Headquarters program offices for evaluation and feedback to improve the FR Program.

As of June 30, 2005, 87% of all FRs were fully qualified, down from 88% the previous quarter, but exceeding the DOE goal of 80%. Eighteen of 27 reporting sites meet the goal for FR qualifications.

Overall FR staffing is at 81% of the levels needed. This percentage decreased from 84% last quarter as site offices updated their staffing analyses and identified more FRs needed. The following site offices have hiring actions planned or in progress to fill identified needs: Nevada Site Office, Los Alamos Site Office, Sandia Site Office, Oak Ridge Operations Office, and Idaho Operations Office.

Current FR information and past quarterly performance indicator reports are accessible at the FR Web Site. Should you have any questions or comments on this report, please contact me at 202-586-3887.

Attachment



Facility Representative Program Performance Indicators Quarterly Report  
September 29, 2005

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## ENVIRONMENTAL MANAGEMENT SITES

### Facility Representative Program Performance Indicators (2QCY2005)

Field or Ops Office	<u>Staffing</u>	<u>FTE</u>	<u>Actual</u>	% Staffing	Attrition	<u>% Core</u>	<u>% Fully</u>	<u>% Field</u>	<u>% Oversight</u>
	Analysis	Level	Staffing			Qualified	Qualified	Time *	Time **
Carlsbad	1	1	1	100	0	100	100	60	65
Idaho (EM)	12.5	12	9	72	0	100	100	44	76
Oak Ridge (EM)	26	14	14	54	0	100	100	44	61
OH/Fernald	4	4	4	100	1	100	100	45	70
OH/Miamisburg	3	2	2	100	1	100	100	40	61
OH/West Valley	2	2	2	100	0	100	100	30	50
Portsmouth/Paducah	4	4	4	100	1	100	100	34	61
Richland	19	19	18	95	1	89	89	45	73
River Protection	14	14	14	100	0	86	86	43	68
Rocky Flats	4	4	5	125	3	100	100	65	75
Savannah River	30	30	30	100	0	100	100	45	77
<b>EM Totals</b>	119.5	106	103	<b>86</b>	7	96	<b>96</b>	<b>49</b>	<b>73</b>
<b>DOE GOALS</b>	-	-	-	<b>100</b>	-	-	<b>&gt;80</b>	<b>&gt;40</b>	<b>&gt;60</b>

\* % Field Time is defined as the number of hours spent in the plant/field divided by the total available work hours in the quarter. The total available work hours is the actual number of hours a Facility Representative works in a calendar quarter, including overtime hours. It does not include leave time (sick, annual, or other) or holidays.

\*\* % Oversight Time includes % Field Time

### EM Facility Representative (FR) Highlights:

- At Idaho (EM), an FR was selected as the DOE FR of the Year along with a YSO FR. RWMC FRs provided extensive backshift coverage of contractor transition to CWI and from BNFL to BBWI to ensure operations were conducted safely. Also FMDP FRs performed extended oversight of the contractor startup activities for the Staging, Storage, Sizing and Treatment Facility at the Idaho CERCLA Disposal Facility.
- At Oak Ridge (EM), the triennial FR Program Assessment was completed with minor deficiencies identified. A corrective action plan is being developed.
- At OH/Miamisburg, an FR observed an 8 ft. deep trench with a 1/4H:1V slope, which violated OSHA requirements for personnel entry. A ladder had been placed in the trench to facilitate personnel access. After discussing with the contractor, corrective action was taken to properly slope back the sides of the trench. Also, in response to FR concerns about heat stress during a particular activity, contractor management scheduled this work on the night shift.
- At OH/West Valley, both FRs remained focused on the following ongoing activities:
  - Safety and operations following the unplanned radiological dose to facility workers that occurred on 1/19/05
  - Resumption of operations in the Vitrification Facility
  - Truck shipments of low-level wastes offsite
  - DOE-STD-1063 comment review
  - Emphasis on proper work practices during hot temperatures.
- At Richland, FRs identified inadequate implementation of fire protection controls associated with PFP sodium bonded fuel pins, and inadequate TSRs for hot work. Also, FRs led and participated in an assessment of gravity related events which identified several issues where the contractors were not adequately implementing hazard controls to control dropping objects from overhead work areas.
- At River Protection, an FR identified an adverse trend related to electrical safety issues. The issues ranged from an electrical shock of an employee using a carpet cleaner to weaknesses concerning arc flash, not using ground fault equipment when required, and inadequate maintenance of electrical equipment. The contractor has a team working on these issues and is revising its Electrical Safety Program, running an electrical safety emphasis campaign, and is trying to find ways to meet the EM Electrical Safety Challenge.
- At Savannah River, an FR identified procedural compliance and CONOPS issues associated with a failed TSR surveillance at 235-F facility. Also, an FR continued supporting the DOE Integrating Project Team responsible for construction of the Glass Waste Storage Building #2. The FR performed detailed reviews to ensure excavation work was performed safely without inadvertently contacting hidden, energized interferences. The FR also identified unsafe acts that were corrected on the spot by the contractor and incorporated into subsequent safety briefings.

## NATIONAL NUCLEAR SECURITY ADMINISTRATION SITES

### Facility Representative Program Performance Indicators (2QCY2005)

Site Office	Staffing Analysis	FTE Level	Actual Staffing	% Staffing	Attrition	% Core Qualified	% Fully Qualified	% Field Time*	% Oversight Time**
Livermore	11	9	9	82	0	67	67	36	58
Los Alamos	19	12	10	53	1	90	60	32	56
Nevada	10	10	8	80	0	75	75	51	69
Pantex	10	8	8	80	0	88	75	29	65
Sandia	13	8	8	62	0	100	63	40	64
Savannah River	4	3	3	75	0	67	67	59	75
Y-12	12	10	10	83	0	80	60	45	74
<b>NNSA Totals</b>	<b>79</b>	<b>60</b>	<b>56</b>	<b>71</b>	<b>1</b>	<b>82</b>	<b>66</b>	<b>40</b>	<b>65</b>
<b>DOE GOALS</b>	-	-	-	<b>100</b>	-	-	<b>&gt;80</b>	<b>&gt;40</b>	<b>&gt;60</b>

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\*\* % Oversight Time includes % Field Time

### NNSA Facility Representative (FR) Highlights:

- At Livermore, during review of a proposed high explosives experiment, an FR identified a possible issue with the use of a platform during post shot recovery. The platform is installed on top of a tank filled with 10,000 gallons of water and would be exposed to the explosion. During post shot recovery, a number of workers would be on this platform. The FR identified issues including questions about the structural integrity of the platform from the effects of the explosion, which could result in workers getting injured or possibly drowning in the tank if the platform failed. The platform was not used during the post shot recovery.
- At Los Alamos, an FR identified that the contractor in CMR was conducting all hood work with no technical basis for chemical glove selection, and as a result was using improper gloves in at least one instance concerning hydrofluoric acid. The FR brought in a NNSA Industrial Hygienist and conducted a joint assessment that resulted in issuance of three findings covering two chemist groups. Also, an FR assigned to TA-55 provided oversight to the short-term storage of FS-65 shipping containers in PF-4 facility. The FR verified that the Conditions of Approval set forth by LASO had been satisfied prior to the movement of FS-65 containers into the PF-4 basement for storage. The facility successfully accomplished movement and storage prior to a 6/30/05 deadline.
- At Nevada, the FR for the Nonproliferation Test & Evaluation Complex completed the FR Technical Qualification Program.
- At Pantex, FRs identified inadequate radiological postings that led to improvements in posting of workplace radiological conditions. Also, FRs led and participated in Component Cleaning and Documented Safety Analysis Implementation Readiness Assessments.
- At Sandia, an FR performed extensive corrective action verification for numerous corrective actions resulting from occurrence reports and radiological incident reports at Z-Machine. The success of the corrective action verification allowed Z-Machine to resume late shift radiological operations in June 2005.
- At Y-12, a YSO FR was named the 2004 DOE FR of the Year at the annual workshop in May. A YSO FR led a quickly-arranged ORR for the startup of the TA-55 Secure Storage Transport Facility at Los Alamos. Also, an FR led an NNSA team in assessing the interim corrective actions to resolve site-wide criticality safety concerns. The team concluded the actions were adequate to facilitate resumption of several curtailed operations involving the shipping, receiving, packaging, labeling, and storage of fissile material.
- At Savannah River, NNSA FRs validated the contractor's Deliberate Operations Corrective Actions and assessed DSA/TSR changes at the 232H facility and ensured that new TSRs were properly implemented.

## OFFICE OF SCIENCE SITES

### Facility Representative Program Performance Indicators (2QCY2005)

<u>Area/Site Office</u>	<u>Staffing Analysis</u>	<u>FTE Level</u>	<u>Actual Staffing</u>	<u>% Staffing</u>	<u>Attrition</u>	<u>% Core Qualified</u>	<u>% Fully Qualified</u>	<u>% Field Time *</u>	<u>% Oversight Time **</u>
Ames	1	1	1	100	0	100	100	28	85
Argonne	5	5	5	100	0	100	100	22	74
Brookhaven	6	6	6	100	0	100	100	37	83
Fermi	2	2	2	100	0	100	100	42	77
Oak Ridge (SC)	2	2	1	50	0	50	50	50	60
Pacific Northwest	2	2	2	100	0	100	100	42	75
Princeton	0.5	0.5	0.5	100	0	100	100	43	69
<b>SC Site Totals</b>	18.5	18.5	17.5	<b>95</b>	0	97	<b>97</b>	<b>34</b>	<b>77</b>
<b>DOE GOALS</b>	-	-	-	<b>100</b>	-	-	<b>&gt;80</b>	<b>&gt;40</b>	<b>&gt;60</b>

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### SC Facility Representative (FR) Highlights:

- At Argonne, an FR assisted in the revision of draft DOE G 420.2 *Accelerator Safety* in support of SC. Comments and other input were considered by SC and the improved guidance is being promulgated to the DOE accelerator community. Also, ASO FRs are analyzing ideas on a programmatic approach to Nanoscale safety.
- At Brookhaven, FRs participated in procedure development and walkdown activities for the Brookhaven Medical Research Reactor (BMRR) drakedown. The drakedown will place the BMRR in a surveillance and maintenance mode in preparation for eventual D&D. Also, FRs participated in several reviews and assessments during the period, including:
  - Machine Shop Safety Assessment
  - Laser Safety Verification
  - Industrial Hygiene Exposure Assessment
  - Energized Electrical Work Review
- At Fermi, the second FR is now fully qualified. FR efforts have been focused on the Laboratory's NFPA 70E, *Standard for Electrical Safety Requirements for Employee Workplaces* program in preparation for the DOE-HQ-SC external review of the Program. Also, FRs participated in the development and implementation of improved ES&H controls for the Experimental Users of the Lab's facilities. The current policies, procedures, and training for the Laboratory Users were revised to better account for these individuals.
- At Pacific Northwest, an FR participated in ongoing contractor efforts to better define the PNNL Hazardous Energy Control Program. Also, an FR participated in a PNSO assessment of how Battelle manages safety at research sites remote to main Laboratory facilities.
- At Princeton, the FR completed a SC requested review of the PPPL welding program using the Energy Facility Contractors Group (EFCOG) Alert, "Welding Program Issues", dated January 3, 2005, as a guide to indicate potential areas where problems may exist. The purpose of this review was to help assure SC that the PPPL welding program has appropriately implemented key welding program elements and attributes provided by the EFCOG Alert.

**OFFICE OF NUCLEAR ENERGY, SCIENCE AND TECHNOLOGY SITES**

**Facility Representative Program Performance Indicators (2QCY2005)**

<u>Area/Ops Office</u>	<u>Staffing Analysis</u>	<u>FTE Level</u>	<u>Actual Staffing</u>	<u>% Staffing</u>	<u>Attrition</u>	<u>% Core Qualified</u>	<u>% Fully Qualified</u>	<u>% Field Time *</u>	<u>% Oversight Time **</u>
Idaho (NE)	11.6	10	8	69	0	100	100	40	74
Oak Ridge (NE)	5	5	5	100	1	80	60	40	52
<b>NE Totals</b>	16.6	15	13	<b>78</b>	1	92	<b>85</b>	<b>40</b>	<b>66</b>
<b>DOE GOALS</b>	-	-	-	<b>100</b>	-	-	<b>&gt;80</b>	<b>&gt;40</b>	<b>&gt;60</b>

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**NE Facility Representative (FR) Highlights:**

- At Idaho, the MFC FRs assisted in a readiness assessment for startup of Space and Security Power Systems Facility (SSPSF) disassembly and assembly activities. Observations identified by the FRs improved the overall readiness for SSPSF disassembly and assembly activities to commence.
- At Idaho, the RTC FRs participated in the Office of Independent Oversight & Performance Assurance (OA) Work Practices and Essential Safety System Functional Assessment at ATR. The assessment also looked at the FRs and the FR Program at RTC. The OA report listed the RTC FRs as a positive program attribute for DOE.