



**NRC Performance Review of
Certified Activities**

Portsmouth Gaseous Diffusion Plant

**September 27, 2006
PUBLIC MEETING**

9/27/2006

Introduction

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Vice President, Operations

**USEC Perspective on
Performance**

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General Manager**

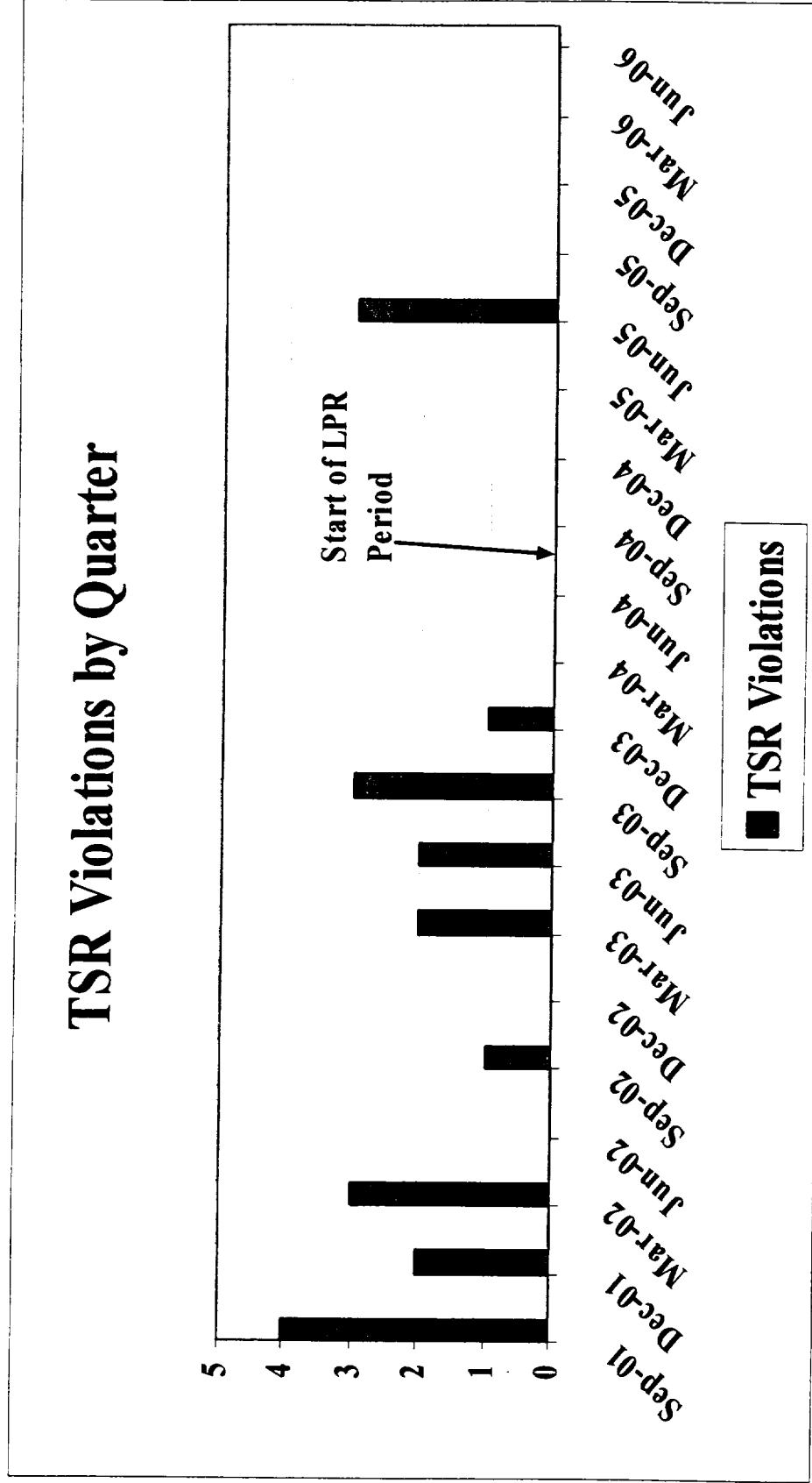
Overview of Performance

- **U.S. Nuclear Regulatory Commission (NRC) review covered period from August 8, 2004 through July 1, 2006.**
- **Topical areas of Safety Operations, Radiological Controls, Facility Support, and Special Topics were reviewed.**
- **The NRC identified no areas needing improvement.**
- **USEC maintained a strong focus on safe, compliant operations during the assessment period and continues that focus as we move forward with current and future opportunities.**

Safety Operations

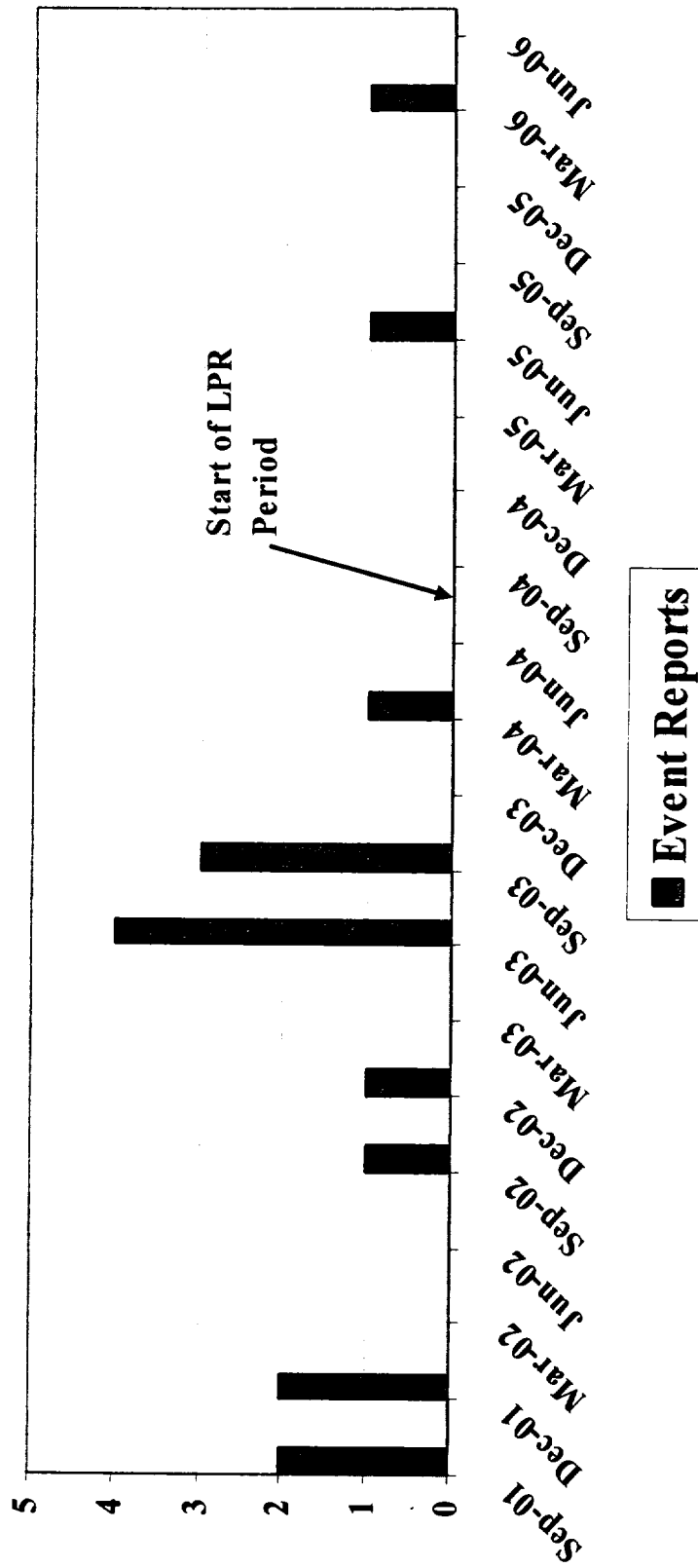
- **Nuclear Safety performance continues to be integrated into daily operations. Significant improvements continue to be seen in the following areas:**
 - **Technical Safety Requirements (TSR) Compliance:** TSRs define the conditions, boundaries, and management or administrative controls to ensure safe plant operation.
 - **Event Reports:** Written reports for those items that are reportable to the NRC in accordance with federal regulations or the plant Certificate of Compliance.
 - **Nuclear Criticality Safety (NCS) Incident:** Incidents where fissionable material is not processed, stored, or handled in accordance with established NCS requirements.

Safety Operations



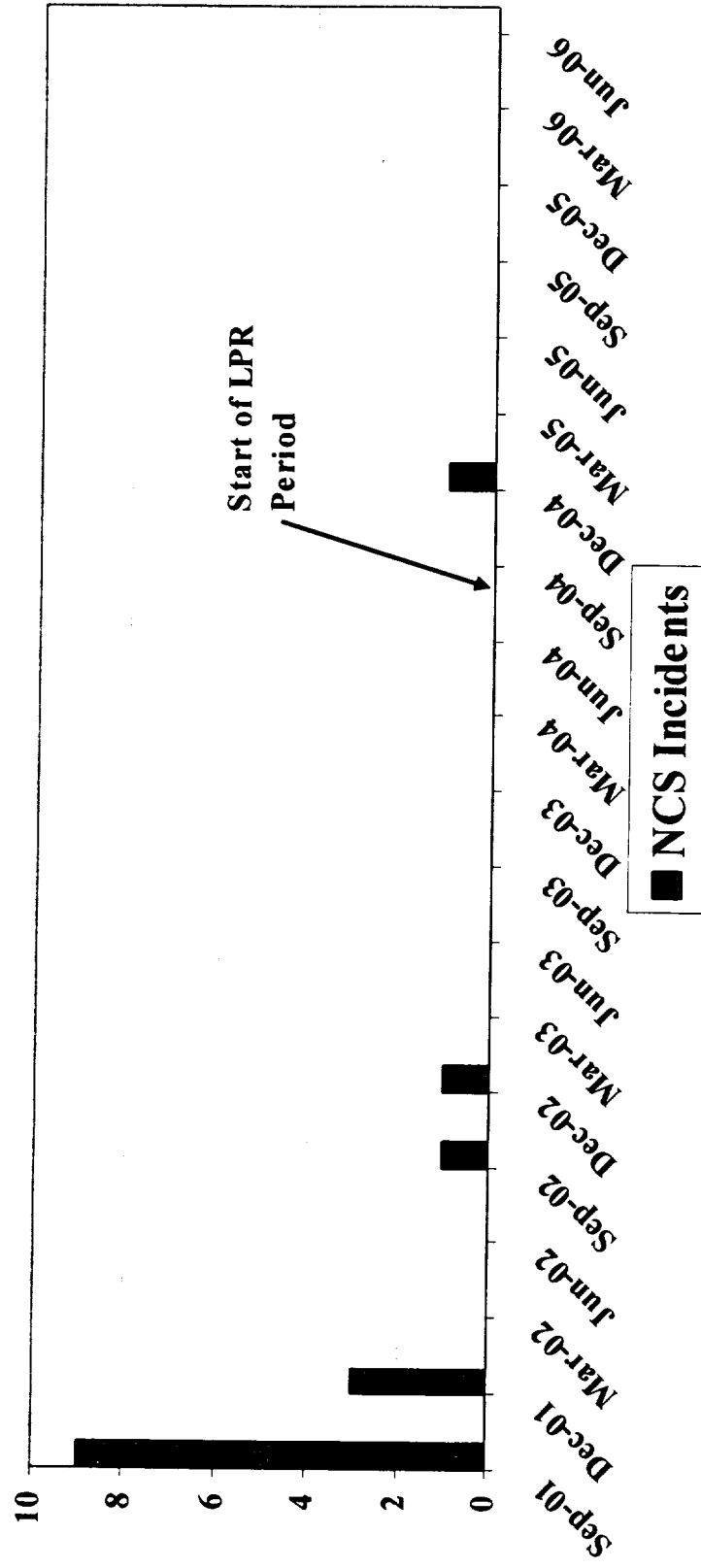
Safety Operations

Event Reports by Quarter



Safety Operations

NCS Incidents by Quarter

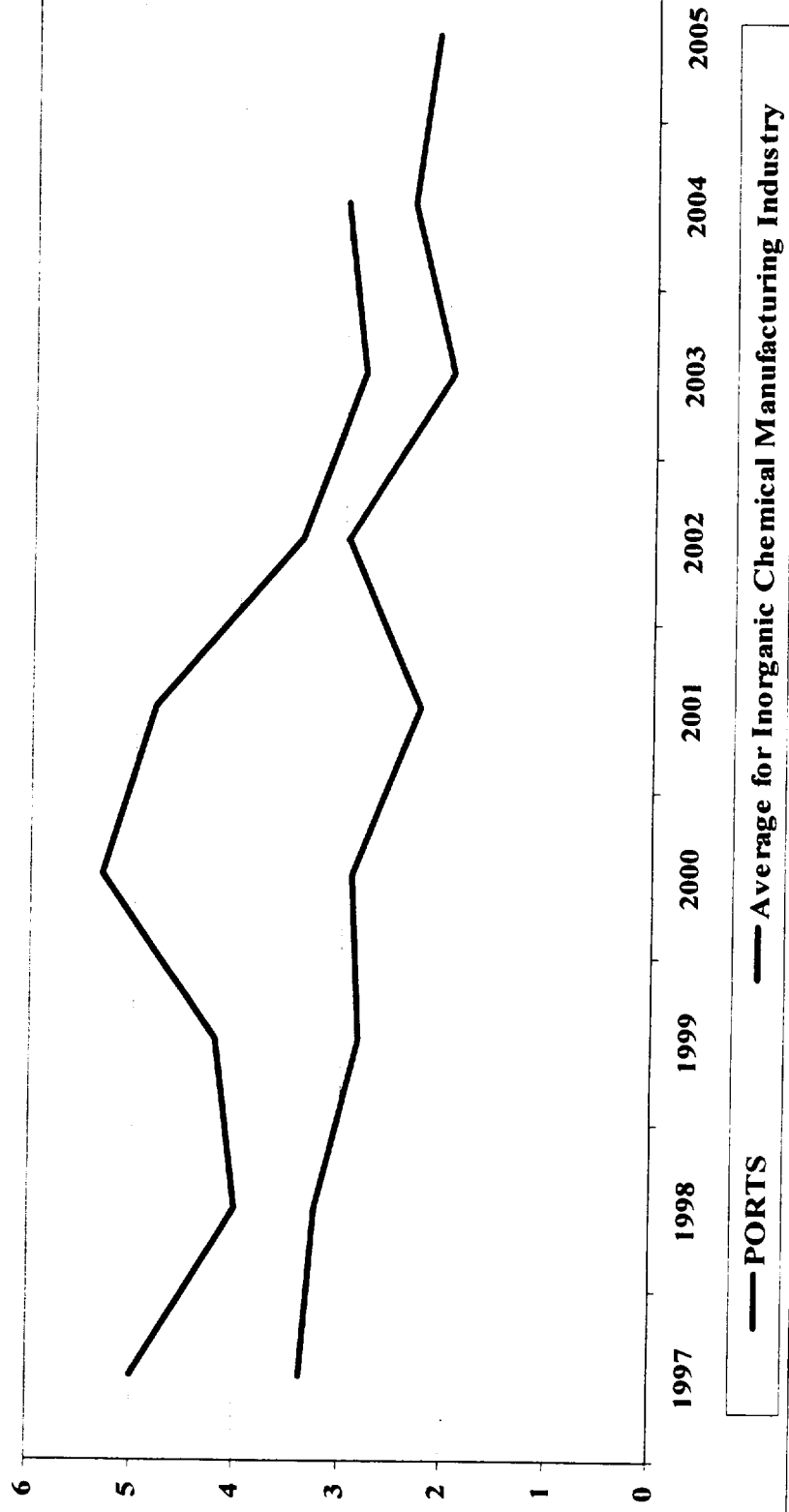


Safety Operations

- **Focused on worker integration and ownership of workplace safety programs**
- **Recognized for outstanding workplace safety by the Ross County Safety Council**
- **Continue efforts to drive injury rates down even though employee Recordable Illness & Injury rate remains better than industry averages**

Safety Operations

Recordable Injury/Illness Rate
per 200,000 Hours Worked

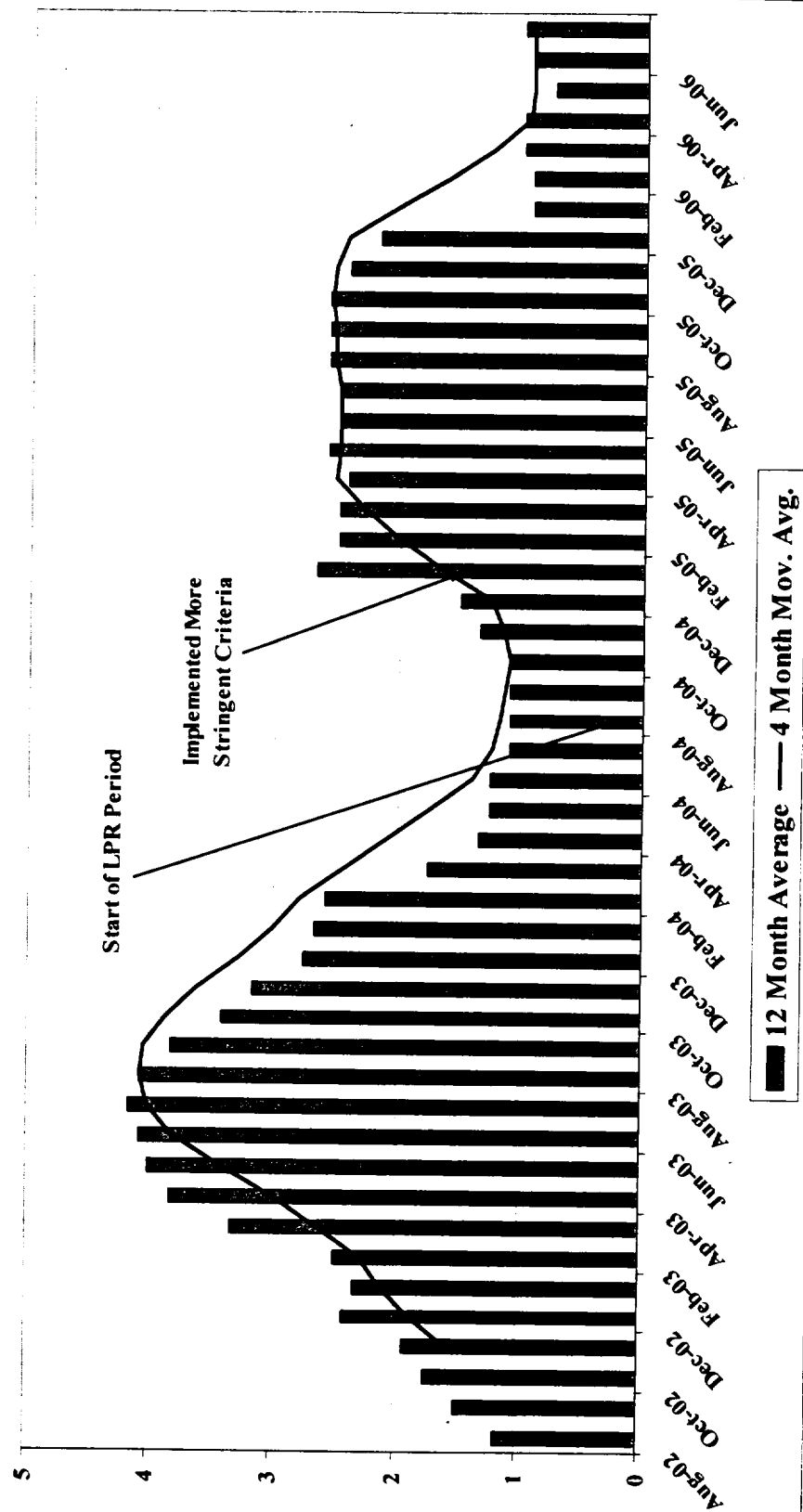


Safety Operations

- **Human performance errors continue to decrease**
 - **Annual average decreased from a high of over four per month in August 2003 to one per month in August 2006**
- **Efforts to continue this trend include:**
 - **Monitoring of near miss and pre-cursor events**
 - **Increased focus on procedure adherence**
 - **Proactive responses to leading indicators**

Safety Operations

Human Performance Errors (HPE)



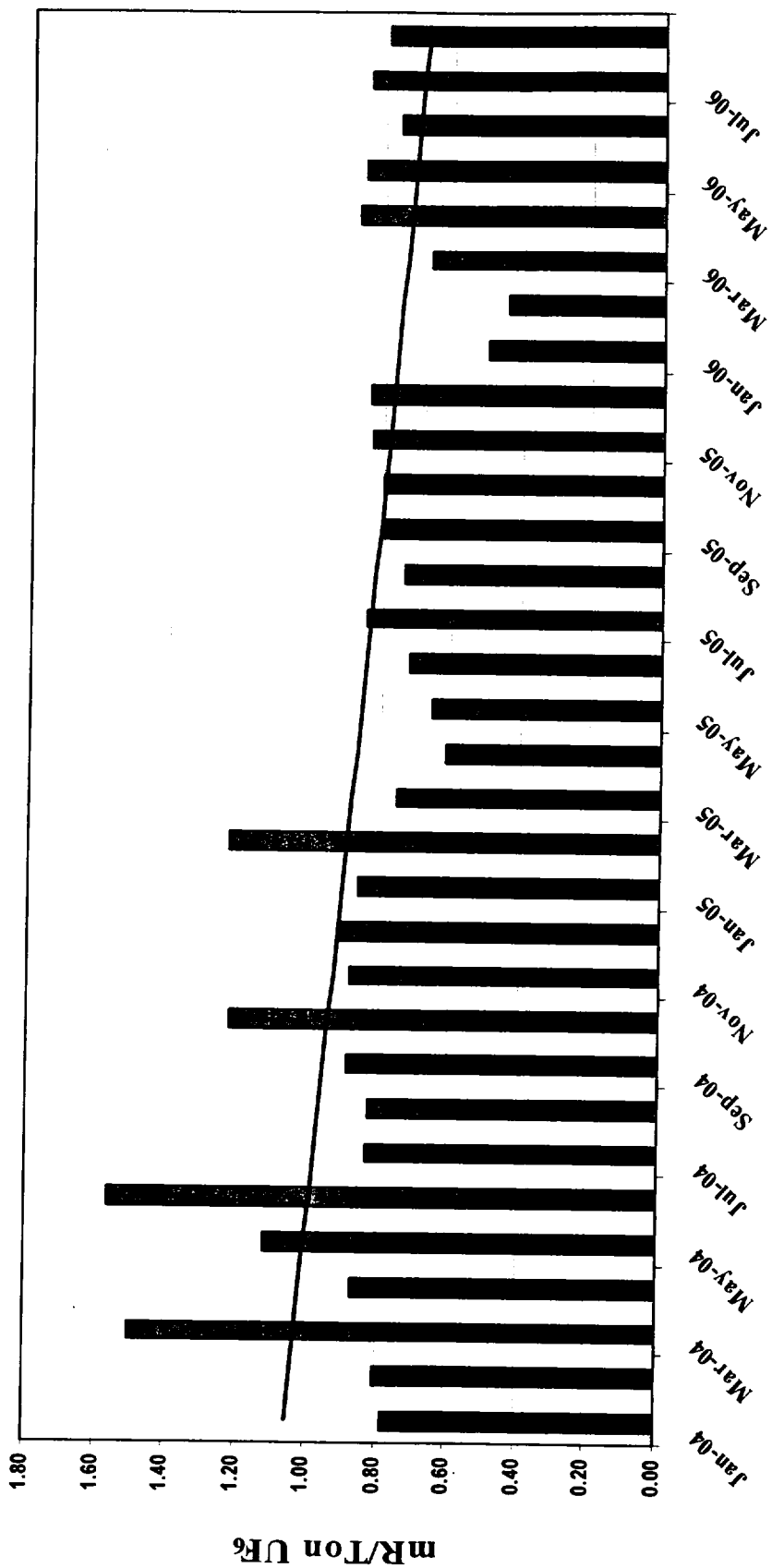
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Radiological Controls

- **Continuous Improvement in ALARA Program**
 - Continually evaluating changing work assignments and frequency of tasks performed in radiological areas to minimize employee exposure
 - Advancements in shielding
 - Remote monitoring capabilities
- **Continue to increase emphasis placed on Self Evaluation**
 - Management by Walking Around
 - Procedural Adherence surveillances
 - Boundary Inspections
 - Organizational Self-Assessments

Radiological Controls

Dose per Ton of UF₆ Processed



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Facility Support

- **Conducted successful biennial Emergency Response Organization exercise that included:**
 - **7 local fire department and emergency response organizations**
 - **5 local Emergency Medical Service Squads**
 - **2 local law enforcement agencies**
 - **1 local hospital**
 - **2 state agencies and 1 federal regulatory agency**
 - **Approximately 600 participants in the NRC graded exercise**
- **Resulted in no negative observations from the NRC**

Facility Support

- **Community Interaction**
 - Contributed equipment, financial, and technical support for establishment of the Pike County Hazardous Material Response Team
 - Provided mutual aid assistance – 3 recent requests for emergency assistance
 - Continue to maintain Mutual Aid Agreements with Pike County Fire Fighters Association, Pike County Sheriff, area hospitals, Emergency Medical Services, and schools
 - Continue to foster ongoing interface with local fire departments

Future Operations

- **Plant mission will remain similar to mission during 2004-2006 evaluation period**
 - **Cold Standby transitioning to Cold Shutdown**
 - **Liquid UF₆ handling operations will continue**
 - **Site tenant support services continuing – Infrastructure & Services**
- **Will continue to focus on nuclear and industrial safety**
- **Continue to cultivate worker and community involvement in plant opportunities**

Summary

- **USEC remains committed to safe plant operation:**
 - **Continued focus on Nuclear Safety**
 - **Improvements in Training**
 - **Continue to include worker integration and involvement in safety programs**
 - **Increased proactive response to pre-cursor events**
- **Continue efforts to maintain a strong Radiation Protection Program**