

United States Government

Department of Energy  
National Nuclear Security Administration

# memorandum

DATE: **January 27, 2006**

REPLY TO  
ATTN OF: **Y12-40:Sundie**

SUBJECT: **STAFFING PLAN FOR THE NATIONAL NUCLEAR SECURITY ADMINISTRATION Y-12  
SITE OFFICE**

to: **Roy Schepens, Chairman, Federal Technical Capability Panel (FTCP)**

Reference: Memorandum from Chairman, Federal Technical Capability Panel to Agents,  
*ANNUAL WORKFORCE ANALYSIS AND STAFFING PLAN REPORT*, dated  
October 28, 2005.

We have completed our analysis of staffing needs per the guidance in the referenced memorandum. Our revised staffing plan for the Y-12 Site Office is attached.

Our plan identifies two vacancies in Fiscal Year 2006, which are included in our baseline staffing level. We are currently in the process of making offers on both vacancies. Also, our analysis concluded the need for additional staffing in several critical positions in Fiscal Years 2007 through 2011. These positions are not in the current baseline; we intend to fill these vacancies through a request for an increase in our staffing baseline and with participants from our Future Leaders Program.

Should you have any questions, please contact Dan Hoag at 865-576-0511.



William J. Bramley  
Manager  
Y-12 Site Office

Attachment:  
As Stated

cc w/attachment:  
Ted Sherry, Y12-01, YSO  
Douglas Dearolph, Y12-50, YSO  
James Martin, Y12-10, YSO  
Daniel Hoag, Y12-40, YSO  
Kenneth Ivey, Jr., Y12-20, YSO  
Terry Olberding, Y12-30, YSO

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**DOE-ORP/ORPCC**

**Annual Workforce Analysis and Staffing Plan Report**  
**As of December 31, 2005**  
**Reporting Office: Y-12 Site Office**

**Section One: Current Mission(s) of the Organization and Potential Changes**

- A. The Y-12 Site Office (YSO) mission is to support National Security in the manufacture and rework of nuclear weapon components, dismantle nuclear weapon components returned from the military, serve as the nation's warehouse for enriched uranium, provide special production support to other programs, support Nuclear Nonproliferation initiatives, and support other federal agencies through the Work for Others Program. To accomplish these missions, the following (non-exclusive) activities are conducted:
- i. Maintain technical capability for nuclear weapons development and production;
  - ii. Dismantle nuclear weapons subassemblies;
  - iii. Manage the processing and storage of highly enriched uranium and lithium for Defense Programs;
  - iv. Maintain all facilities in support of assigned programs;
  - v. Effectively re-manufacture, surveil and assess all uranium, lithium, and secondary components in the nuclear stockpile while protecting personnel and the environment;
  - vi. Store, process, and disposition uranium, lithium, and secondary components associated with the nuclear stockpile;
  - vii. Conduct Nuclear Nonproliferation activities; and
  - viii. Other programs as assigned
- B. The YSO is currently working on new or changing missions as follows:
- Significant efforts are underway at Y-12 to achieve a modernized factory that is responsive, efficient, and cost effective in meeting the missions of NNSA, the latest design basis threat (DBT) guidance and that complies with modern codes, standards, and ES&H regulations. The focal point of the modernization effort is the consolidation of all enriched uranium in the Highly Enriched Uranium Materials Facility (storage) or the Uranium Processing Facility (manufacturing). This will reduce the high-security area by 90% and will reduce operating cost by approximately \$150M per year. A new security fence will enclose the two facilities. Y-12 will also be required to accelerate the dismantlement of weapon components and consolidate some operations and nuclear material into a smaller footprint in order to fully support the modernization vision and implement the design basis threat guidance.
  - Due to the magnitude and complexity of the modernization effort, on-site oversight is necessary to ensure requirements are met. Activities requiring YSO oversight include multiple line item projects, expense projects, and consolidation initiatives to implement the modernization vision and DBT implementation. Project directors perform oversight of line item and expense projects while program managers perform oversight of dismantlement and the consolidation of operations and nuclear material. Project directors and program managers are supported by matrix organizations that provide expertise in authorization bases, safeguards and security, operations, startup/readiness, safety and health, and finance and contract management.
  - Production readiness and capacity are being driven by the "New Triad" of flexible response capabilities established by the Nuclear Posture Review. A reduction in the future stockpile is expected to be complemented by an infrastructure that is capable of responding to unforeseen problems in the stockpile or emerging threats that would require new capabilities. The current stockpile is expected to be replaced overtime by reliable replacement warheads (RRW). This migration to reliable replacement warheads and a responsive infrastructure will require additional YSO oversight.

- The Oak Ridge community provides support to virtually all of the NNSA nonproliferation programs. This work is accomplished through the Oak Ridge Center for International Threat Reduction, which draws upon resources from ORNL, Y-12, and others in the Oak Ridge community. As the NNSA representative in Oak Ridge, YSO is involved with oversight, coordination and providing contractor direction and performance evaluation. Among the Nonproliferation programs supported are the HEU purchase agreement and other transparency activities, Global Threat Reduction Initiative, Russian Material Protection Control and Accounting, Nuclear Cities Initiative, International and Domestic Fissile Materials Disposition Programs, IAEA inspections, Export Control, Second Line of Defense, compliance with START treaties, and Russian Strategic Rocket Force activities. It is expected that the Y-12 and Oak Ridge involvement in these programs will increase substantially over the coming years.
- Plans are to consolidate the manufacturing operations into a smaller facility "footprint" to allow more efficient and integrated operations. This consolidation will also extend to the security PIDAS, which will be modified to maintain only those areas in the revised footprint. This will involve a series of projects of sufficient magnitude and complexity that on-site oversight is necessary to ensure requirements are met.
- Additional startup and/or restart activities will result from modernization efforts. YSO is working to both clearly define roles and responsibilities within each organization and to standardize the startup/restart process to facilitate efficiency and cost effectiveness. For these reviews, as minimum, technical individuals from the Operations Management, Programs, Safeguards & Security, and Technical Services organizations are required to evaluate the contractor's state of readiness. YSO will also utilize the NNSA Service Center to supplement and/or support these efforts.
- Plans are to transfer the Y-12 waste management function and facilities from ORO to YSO in FY06. DOE and Contractor transition teams are currently working a path forward on this task. In FY06, ORO will detail two individuals to YSO to perform the Facility Representative and Program Manager functions for these facilities. In FY07, the baseline staffing level will be increased to 86 FTEs to make them permanent staff positions.
- YSO added two individuals from the NNSA Future Leaders Program as entry-level engineering positions in the Operations Management and Project Management groups. One Intern was added to the Safeguards and Security group with plans for 2 additional S&S Interns. These positions are not counted in the 84 FTE baseline. These positions are funded separately for the first 2-year period while they complete a prescribed training program. At the end of this period, the positions will be counted against the YSO baseline at that time. One Future Leader Candidate will be participating in the Facility Representative Qualification Program, which will consist of the Interim Qualification phase of the program. The second Future Leader Candidate will be participating in the Project Management functional qualification area. Assignment of additional future leader candidates is being pursued in the Operations, Administration, and Technical Services area of YSO. The S&S Intern will be completing the Physical Security functional area qualifications. Two additional S&S Interns will be brought on board in June, 2006. One will be in the area of Nuclear Material Control and Accountability and the other will be an S&S Systems Engineer.
- In response to a DNFSB letter which discussed training and staffing deficiencies in the NNSA FR program, the NNSA HQ developed guidance on FR Training and a more rigorous staffing analysis method to determine FR Requirements. Using the results of the YSO FR Staffing Analysis, one additional FR was added to the YSO staff this year.

**Section Two: Technical Staffing**

**Number of Hazard Category 1, 2, or 3 Nuclear Facilities:**

HC 1 0 HC 2 10 (See Note 3) HC 3 5

**Number of Radiological Facilities:** 45 (See Note 4)

**Number of High or Moderate Hazard Non-Nuclear Facilities:** 7

**Number of Low Hazard Non-Nuclear Facilities:** \_\_\_\_\_

**Number of Documented Safety Analyses:** 15 (See Note 3)

**Number of Safety Systems<sup>2</sup>:** 105 (See Note 3)

**Number of Site Contractor FTEs:** 7491

**Number of Federal Office FTEs:** 84

1. Facilities, systems, personnel and authorities listed should be those in the organization's immediate line authority.
2. Safety Systems must be credited in the DSA or be a recognized defense in depth system.
3. This number includes data anticipated for the HEUMF facility, which is currently under construction.
4. This number will increase when the Waste Management facilities complete transition to Y-12.

**TECHNICAL STAFFING <sup>1</sup>**  
**YSO Technical Staffing Summary Table for FY2006 (see Notes below)**

TECHNICAL CAPABILITY	For All Hazardous Facilities <sup>1</sup>		For Defense Nuclear Facilities <sup>2</sup>		Comments
	Number of FTEs Needed <sup>1</sup>	Number of FTEs Onboard <sup>1</sup>	Number of FTEs Needed <sup>2</sup>	Number of FTEs Onboard <sup>2</sup>	
Senior Technical Safety Managers	6	6	6	6	
Safety System Oversight Personnel <sup>3</sup>	6	6	6	6	
Facility Representatives <sup>4</sup>	10	10	10	10	Interim Quals in progress for 2 recent additions.
Other Technical Capabilities: <sup>5</sup>					
Authorization Basis Engineers	4	4	4	4	
Chemical Processing	0	0	0	0	Functions covered by SSO
Civil/Structural Engineering	0	0	0	0	Functions covered by SSO
Construction Mgmt	0	0	0	0	Functions covered by Project Managers
Criticality Safety	1	1	1	1	
Electrical Systems	0	0	0	0	Functions covered by SSO
Emergency Management	1	1	1	1	
Environmental Compliance	1	1	1	1	
Facility Maintenance Mgmt	1	1	1	1	
Fire Protection Engineering	0	0	0	0	Functions covered by SSO
Industrial Hygiene	1	1	1	1	
Instrumentation and Control	0	0	0	0	Functions covered by SSO
Mechanical Systems	0	0	0	0	Functions covered by SSO
Nuclear Safety Specialist	0	0	0	0	Performed by AB Engineers
Occupational Safety	1	1	1	1	
Lead Operations Engineer	1	1	1	1	
Lead Quality Assurance Engineer	1	1	1	1	
Weapons QA Specialist	2	2	2	2	
Weapons QA Engineer	1	1	1	1	
Quality Assurance	1	1	1	1	
Radiation Protection	1	1	1	1	
Senior Technical Program Manager	4	4	4	4	Qualification in Progress
Safeguards and Security	8	8	8	8	
NMC&A Specialist	2	1	2	1	Selection made
Cyber Security Specialist	3	3	3	3	
Safety Software Quality Assurance	1	1	1	1	
Technical Program Manager	3	2	3	2	Recruitment in progress.
Technical Training	1	1	1	1	
Transportation & Traffic Mgmt	0	0	0	0	Matrix support from ORO
Waste Management	0	0	0	0	Functions covered by Environmental Compliance
Senior Project Director (Note 6)	4	4	4	4	
Project Director (Note 6)	3	3	3	3	Qualifications in progress for 3 Project Directors
Senior Nuclear Engineer	1	1	1	1	
<b>TOTALS</b>	<b>69</b>	<b>67</b>	<b>69</b>	<b>67</b>	

Notes:

1. These columns are the number of FTEs needed to perform the Federal Safety Assurance function for all hazardous facilities, including defense and non-defense nuclear facilities, radiological facilities, and other hazardous facilities. The Federal Safety Assurance function is described in the DOE *Implementation Plan to Improve Oversight of Nuclear Operations* (in response to Defense Nuclear Facilities Safety Board Recommendation 2004-1).
2. These columns apply only to defense nuclear facilities, and are a subset of the previous columns. These positions are being specified in order to report the status of shortages and any actions taken to fill them to the DNFSB in December 2006 under Commitment 15 in the DOE 2004-1 IP.
3. SSO staffing analysis worksheets can be found at <http://www.ftcp.org>.
4. Facility Representative staffing analysis worksheets can be found at <http://www.ftcp.org>.
5. Any additional required technical capabilities should be added to this list. No listed technical capabilities should be deleted.
6. See attached Project Director staffing analysis.

## 2.0 Technical Staffing (continued)

The basis for the YSO Technical staffing summary staffing levels was determined utilizing the methodology guidance provided in the Referenced letter to the FTCP Agents. The YSO analysis was subdivided into the following groups.

- Facility Representatives – The process for determination of the appropriate amount of FR oversight is an analytical method given the facility hazard level, operational activity and complexity, and programmatic importance.
- Safety System Oversight Engineers -- The process for determination of Safety System Oversight (SSO) staffing levels is based on and adapted from the process used to determine Facility Representative staffing levels. For YSO, these positions consist of Chemical Process Engineer, Instrumentation Engineer, Metallurgical Engineer, Heating, Ventilation, and Air Conditioning (HVAC), Fire Protection, and Senior Systems Engineer.
- Technical Qualification Program -- The process for determination of Technical Qualification Program (TQP) staffing levels is based on and adapted from the process used to determine Facility Representative and Safety System Oversight (SSO) staffing levels. The TQP staff consists of federal personnel qualified to a Functional Area Qualification (FAQ) Standard that is needed over and above the facility representatives, the SSO staff, the safety management program oversight staff, and the senior technical safety managers to ensure operational safety and mission accomplishment. The YSO TQP was further subdivided into the following groups.
  - Senior Technical Safety Managers
  - Operations Management – Operations, Maintenance, Training, Weapons Quality Assurance, Software Quality Assurance, Facility Quality Assurance
  - Safeguards & Security – Physical, Cyber, Information, Industrial, and NMC&A
  - Technical Program Managers/Project Directors
  - Technical Subject Matter Experts – Authorization Basis, SSO, Industrial Hygiene, Environmental, Fire Protection, Radiological Protection, Emergency Preparedness, and Transportation

The analysis was performed in each of these areas and the results documented in Table 1.

- Senior Technical Safety Manager (STSM) – The process for determination of STSM positions was made based on YSO's organizational structure. YSO Senior Management unilaterally determined that all senior technical positions would qualify as an STSM. Consequently, the 6 designated STSM positions in YSO are the Manager, Deputy Manager, and the Assistant Managers for Operations Management, Programs, Technical Services, and Safeguards & Security.
- In the process of performing these staffing analyses, consideration was made to situations where the SSOs, FRs, and SMEs provide assistance to each other to meet oversight responsibilities without increasing the number of FTEs. An example would be the Radiological Control Engineer performing a Conduct of Operations walkthrough of the Dosimetry facility.

### **Section Three: Current shortages and plans for filling them**

The following are the anticipated shortages for YSO in the critical technical capabilities/positions to be filled in fiscal year 2006. These positions are contingent upon retaining current staff.

Technical Program Manager - This position is a backfill created by the selection of a current YSO staff member for the Senior Program Manager/ NEPA compliance officer. This position is required to perform oversight of readiness campaign activities. Recruitment activities are underway to fill this position in early calendar year 2006.

NMC&A Specialist – This position performs oversight over the Control and accountability of special nuclear material, which is a core element of the Y-12 Plant Safeguards and Security programs. The magnitude and complexity of this classified program requires not only specific expertise but also 2 FTEs to manage. For this reason this position must be back-filled. A candidate has been selected for this position.

### **Section Four: Projected shortage/surplus over next five years**

The following are projected shortages in the technical capabilities/positions to be filled in fiscal years 2007 through 2012. This position is contingent upon retaining current staff. The shortages are relative now and will increase as the two major projects (HEUMF and UPF) continue to progress through design, construction, and operation

Safeguards & Security Specialist (3 FTEs) – These positions will be filled by Interns. One intern is on board and two will be recruited in FY06.

#### Physical Security Specialist (NOT in the 84 baseline target)

Changes in the last two years have overloaded the current Physical Security capabilities. The increases to date have been picked up by existing staff, but we are now facing the point where we cannot accomplish all of the assigned work. This position would allow us to adequately align the Physical Security responsibilities among the staff and accomplish all of our required actions and oversight. Examples of the increased work load include: DBT and Vulnerability Assessment requirements; NA-70 program management requirements, including Program Execution Guidance and Annual Operating Plan; YSO approval of all site/facility security plans (88 security plans, with almost all requiring serious attention, plus an indefinite number of visit and special security plans); and YSO certification of Y-12 VTRs (approximately 100).

#### S&S Systems Engineer (NOT in the 84 baseline target)

This position is needed to support the S&S review and oversight of all Y-12 projects and serve as the OAMSS Program Manager for S&S projects. Major line item projects (e.g. SIP, HEUMF, UPF, Purification) and other major projects (e.g. Off-Site Records Storage Facility, alternate financed facilities, material consolidation project) have involved substantial support from OAMSS staff. Inadequate staffing has allowed only superficial participation in several project reviews requested by YSO Project Managers over the past year. This situation will only get worse over the next several years as the various projects evolve through the design, construction, and start-up phases. The position also needed to provide program management for S&S Technology Deployment projects involving first-of-a-kind deployments as the Y-12 point-of-contact with DOE/NNSA HQ, other sites, and other agencies. As DOE/NNSA/Y-12 proceeds with implementing future S&S requirements, the reduction of protective forces and associated costs to be gained by the deployment of technologies will be increasingly important. Current YSO staffing has only allowed superficial participation in several key technology project reviews at Y-12 or other sites related to actual or potential deployments. Successful completion of these tasks is needed to meet future DBT requirements and for more cost effective operations.

Authorization Basis Engineer (NOT in the 84 baseline target) -- The need for this additional position is based on an evaluation of anticipated authorization basis work associated with the efforts to achieve a modernized factory which meets the missions of NNSA (HEUMF and UPF). This work includes the latest design basis threat (DBT) guidance and ensures compliance with modern codes, standards, and ES&H regulations.

Safety System Oversight (2 FTEs) – (NOT in the 84 baseline target) – The need for this additional position is based on an evaluation of anticipated safety system oversight work associated with the efforts to achieve a modernized factory which meets the missions of NNSA (HEUMF and UPF). This work includes the latest design basis threat (DBT) guidance and ensures compliance with modern codes, standards, and ES&H regulations. Plans are to recruit two Future Leader Candidates to meet the staffing need for FY2008 and FY2009. One position will be Fire Protection Engineer and one will be an HVAC Engineer.

Technical Program Manager (NOT in the 84 baseline target) – This position is required to support oversight of DSW, Campaigns, and RTBF activities. Plans are to recruit a Future Leader Candidate in FY06 to meet the staffing need for FY2008.

Criticality Safety Engineer (NOT in the 84 baseline target) – This position is needed to support additional facilities: PPTF, HEUMF, UPF and related transportation activities. Plans are to recruit a Future Leader Candidate to meet the staffing need for FY2007.

Project Engineer (NOT in the 84 baseline target) – This position is required based on the project director staffing analysis to support the future project workload. Currently a Future Leader Candidate was recruited for this position to meet the FY07 staffing need.

Lead Project Director – (NOT in the 84 baseline target) This position is required based on the project director staffing analysis to support the future project workload. Due to uncertainties associated with the approval and funding level for future projects, these positions will not be filled until FY07 at the earliest.

Facility Representative for Waste Management (NOT in the 84 baseline target) This position is needed to support the planned transfer of the Y-12 waste management function and facilities from ORO to YSO in FY06. ORO will detail one FTE of support to YSO as an interim measure until the position is permanently filled in FY07. During FY06, YSO will evaluate the position to determine the appropriate technical skills and capabilities needed to perform sufficient oversight; based on the results the appropriate position description will be developed and the position filled.

Environmental/Waste Management Program Engineer (NOT in the 84 baseline target) This position is needed to support the planned transfer of the Y-12 waste management function and facilities from ORO to YSO in FY06. ORO will detail one FTE of support to YSO as an interim measure until the position is permanently filled in FY07. During FY06, YSO will evaluate the position to determine the appropriate technical skills and capabilities needed to perform sufficient oversight; based on the results the appropriate position description developed and the position filled.

Operations Engineer (Note in the 84 baseline target) This position is needed to support program management activities in the areas of Conduct of Operations, Startup/Restart Activities, Training and Maintenance. Plans are to recruit a Future Leader Candidate to meet the staffing need in FY2008.

### YSO PROJECTED NEEDS AND RECRUITMENT PLANS

Additional YSO Staffing (Not included in the 84 baseline number of FTEs)

Positions	FY2006		FY2007		FY2008		FY2009		Comments
	Needed	On Board	Needed	On Board	Needed	On Board	Needed	On Board	
Waste Management Facility Rep	0	1 (Note 1)	1	0 (Note 2)					
Waste Management Program Manager	0	1 (Note 1)	1	0 (Note 2)					
Authorization Basis Engineer			1	0					Needed to support additional facilities: PPTf, HEUMF, UPF and related transportation activities
Safety System Oversight					1	0	1	0	These positions will be a Fire Protection Engineer and an HVAC Engineer
Criticality Safety Engineer					1	0			Fill with Future Leader
Technical Program Manager					1	0			Fill with Future Leader
Lead Project Director			1	0					
Operations Engineer					1	0			Fill with Future Leader
Facility Representative			1	1					Future Leader on board currently in training
Project Engineer			1	1					Future Leader on board currently in training
Safeguards & Security Specialists	2	1							1 Intern on board; 2 interns to be recruited
Physical Security Specialist			1	0					
S&S Systems Engineer	1	0							Fill with S&S Intern

Note 1: This position will be a detail from ORO to YSO in Fiscal Year 2006

Note 2: YSO will evaluate this position in FY07 to determine the knowledge, skills, and technical capabilities necessary to perform sufficient oversight; based on the results the appropriate position description will be developed and the position filled.

The following table summarizes YSO staffing activities for Future Leader and Intern Positions.

Positions	FY2005	FY2006	FY2007	FY2008	Comments
<b>Future Leaders</b>					
Technical Program Manager		Recruit 1 for need in FY08			
Facility Representative	Recruited 7/05 for need in FY07				
Project Engineer	Recruited 7/05 for need in FY07				
Operations Engineer		Recruit 1 for need in FY08			
<b>Interns</b>					
Safeguards & Security	Recruit 1				
Safeguards & Security		Recruit 1			
Safeguards & Security		Recruit 1			

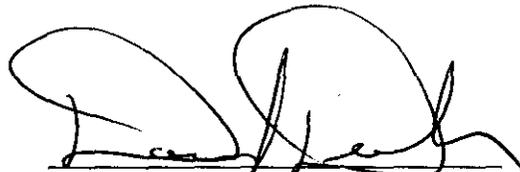
**Section Five: General concerns or recommendations related to the Technical Staffing**

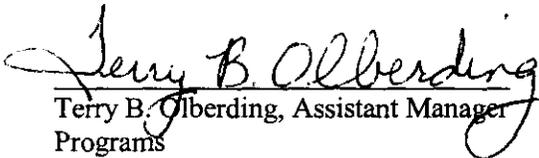
1. Technical support contractor effort in FY 2006 will be determined based on funding available, estimated to be \$600k. Allocation of 4 FTEs is as follows: 1.0-Operations; 1.0-Programs; 1-Technical; and 1-Authorization Basis.
2. Support from the NNSA Service Center and ORO in many areas is required. Specifically, the Security Office is depending on ORO to supply security support services. Obtaining certain security support other than from ORO would be complicated and would likely increase YSO workload above the existing staff level to perform in-house security functions.
3. Staffing projections contained in this plan exclude the planned transfer of Environmental Management Work. It is estimated that this new work will consist of approximately \$30M of work a year. In FY06, two staff members will be detailed to YSO to support the transition. Positions for Environmental/Waste Management Program Engineer and a Waste Management Facility Representative will be added to the YSO Staff. Plans are to permanently fill these positions in FY2007.
4. The project staffing analysis demonstrates the need for nine Project Directors and one Lead Project Director on average from 2006 through 2014. In FY 2009 and beyond, the need is contingent on DOE approval of future projects not currently in the ICPP and on available funding. Currently, eight project directors are on board including one position in the future leaders program. The funding profile for UPF is uncertain at this time, therefore, the number of project directors could be increased and the timing they are needed could be accelerated in the near future.
5. As stated in this plan, the YSO target staffing level baseline does not include positions for the Future Leader Candidates and S&S Interns. The Future Leader Candidates will complete their training program in July 2007. Re-evaluation of the baseline target staff level and possibly the position assignments to account for these additions.

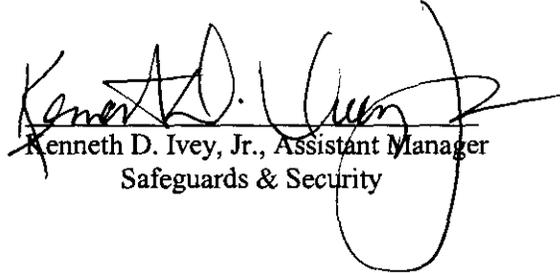
6.0 Concurrence and Approval

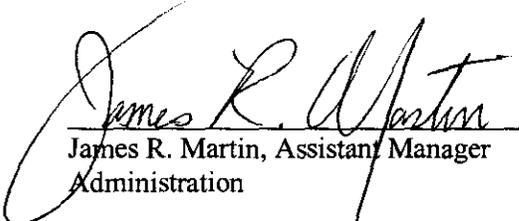
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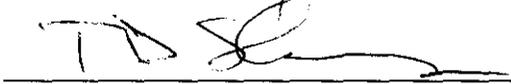
  
Daniel K. Hoag, Assistant Manager  
Operations Management

  
Douglas J. Dearolph, Assistant Manager  
Technical Services

  
Terry B. Olberding, Assistant Manager  
Programs

  
Kenneth D. Ivey, Jr., Assistant Manager  
Safeguards & Security

  
James R. Martin, Assistant Manager  
Administration

  
Theodore D. Sherry, Deputy Manager  
Y-12 Site Office

Approval:

  
for William J. Brumley, Manager  
Y-12 Site Office

10-11  
WAS  
1/25/02

**Attachment 1 -- Y-12 Site Office Technical Baseline Positions and Staffing**

<b>Position</b>	<b>Baseline Number</b>	<b>Existing</b>
Senior Technical Safety Manager – (Manager, Deputy Manager, Assistant Managers)	6	6
Senior Security Technical Advisor	1	1
Facility Representatives	10	10
Lead Quality Assurance (QA) Engineer	1	1
Weapons QA Specialist	2	2
Weapons QA Engineer	1	1
Lead Operations Engineer	1	1
Operations Engineer	2	2
Facility QA Engineer	1	1
Industrial Hygiene Specialist	1	1
Radiological Control Engineer	1	1
Industrial Safety Engineer	1	1
Environmental Compliance Engineer	1	1
Fire Protection Engineer	1	1
Emergency Management Engineer	1	1
Senior Criticality Safety Engineer	1	1
Lead Process Engineer	1	1
Authorization Basis Engineer	4	4
Process Engineer	4	4
Senior Technical Program Manager	3	3
Technical Program Manager	3	2
Senior Project Director	4	4
Project Director	4	4
Senior Nuclear Engineer	1	1
NMC&A Specialist	2	1
Security Officer	1	1
Information Security Specialist	2	2
Classification Analyst	1	1
Information Technology Specialist	1	1
Firearms Safety Specialist	1	1
Industrial Security Specialist	1	1
Security Systems Engineer	1	1
HRP Administrator	1	1
Physical Security Specialist	1	1
<b>TOTALS</b>	<b>69</b>	<b>67</b>