



Department of Energy
National Nuclear Security Administration
Washington, DC 20585

April 20, 2001

The Honorable John T. Conway
Chairman
Defense Nuclear Facilities Safety Board
625 Indiana Avenue, NW.
Suite 700
Washington, D.C. 20004-2901

Dear Mr. Chairman:

The Fire Protection Program at the Y-12 Plant was the subject of a Board letter to General Gordon on August 18, 2000. On December 7, 2000, Defense Programs (DP) provided an interim response to the Board, which committed to delivery of a Y-12 Fire Protection Program (FPP) Corrective Action Plan by January 31, 2001. The Site has experienced unexpected difficulty in the development of a suite of corrective actions. In the interest of keeping the Board informed of progress, this second interim response is provided.

Enclosed are two memoranda (first one dated March 2, 2001, and the second dated April 5, 2001) from William Brumley, Y-12 Area Office Manager, which collectively describe the effort to correct deficiencies in the Y-12 FPP. Headquarters DP staff has reviewed the memoranda and the enclosures and concurs in the described path forward. The site has selected and will complete \$1.2 million in high priority FPP work in Fiscal Year 2001. Additionally, BWXT Y-12 has chartered a Task Team to identify FPP deficiencies and to correct and bring the Y-12 FPP into compliance. The Team is to complete its chartered work by July 31, 2001. We will review the Task Team report and plan to deliver it to the Board by August 30, 2001. In the interest of keeping the Board informed of the path forward and the status of corrective actions, DP would like to brief the Board in early May 2001. My staff will coordinate with the Board staff to arrange a date for the briefing.

If you need additional information, please contact me, or have your staff contact Xavier Ascanio at 301-903-3757.

Sincerely,

THOMAS F. GIOCONDA
Brigadier General, USAF
Acting Deputy Administrator
for Defense Programs

Enclosures

cc w/enclosures:
M. Whitaker, S-3.1



Printed with soy ink on recycled paper

United States Government

Department of Energy
National Nuclear Security Administration

memorandum

DATE: March 2, 2001


REPLY TO

ATTN OF: NADP-68:Rhyne

SUBJECT: **Y-12 FIRE PROTECTION PROGRAM SCHEDULE FOR FISCAL YEAR (FY) 2001,
HIGH PRIORITY TASKS**TO: David E. Beck, Deputy Assistant Secretary for Military Applications and Stockpile
Operations, DP-20/FORS

Attached is the subject funded schedule for intended FY 2001 activities. Note that instead of focusing on hardware and facility related corrective actions, these activities are instead focused on the implementation of a compliant fire protection program. My staff has reviewed the attachment and concurs with the contractor's priority, budget, and schedule.

The attachment discusses BWXT's efforts to initiate a project task team to address the entire fire protection program. I will keep you informed of this team's progress. Direct any questions to Ken Rhyne at (865) 576-9901 or Jim Hutton at (865) 241-9154.



William J. Brumley
Manager
Y-12 Area Office

Attachment:

cc w/attachment:

P. Aiken, DP-24

X. Ascanio, DP-24

D. K. Hoag, NADP-66

K. D. Ivey, NADP-67

J. R. Martin, NADP-6

T. B. Olberding, NADP-68



February 26, 2001

Mr. William J. Brumley, Manager
Y-12 Area Office
Department of Energy, NNSA
Post Office Box 2001
Oak Ridge, Tennessee 37831

Dear Mr. Brumley:

Contract DE-AC05-00OR22800, Schedule of FY 2001 Highest Priority Tasks, Y-12 Complex Fire Protection Program

Reference: Letter dated January 18, 2001, J. T. Mitchell to William J. Brumley, "Contract DE-AC05-00OR22800, Defense Nuclear Facilities Safety Board (DNFSB) Response"


Enclosed is the BWXT Y-12 L.L.C schedule of FY 2001 Highest Priority Tasks for the Y-12 Complex Fire Protection Program. This schedule is focused on the implementation of a compliant fire protection program rather than specific hardware and facility related corrective actions. I initiated a project task team on February 14, 2001, to address the entire fire protection program. This multi-function task team will be comprised of both existing incumbent personnel with Y-12 knowledge to verify data accuracy and new personnel with experience in Project Management and Control, Fire Protection Engineering, and Management to provide a new set of eyes and approach to solve these issues. A.C. Hollins and Paul Wasilko provided you and your staff with an initial overview of this path forward on February 20, 2001.

The BWXT Y-12 Resource Management Board approved the equivalent of \$1.2M (\$845K of management reserve and \$400K from redirected funds) to address the FY 2001 Fire Protection highest priority tasks.

W. J. Brumley
Page 2
February 26, 2001

Please contact A.C. Hollins at 241-1920 if you have any questions or need additional information.

Sincerely,



John T. Mitchell
President and General Manager

JTM:PRW:lc

cc: A.C. Hollins, Jr.
M.W. Knazovich
L.L. Reed
YDCC - RC

Attachment: As Stated

**Y-12 National Security Complex
Operated by
BWXT Y-12, L.L.C.**

**Y-12 Complex Fire Protection Program
Corrective Action Schedule**

Schedule of FY 2001 Highest Priority Tasks

February 2001

Y-12 Complex Fire Protection Corrective Action Schedule of FY 2001 Highest Priority Tasks

Overview

The requirements for the Y-12 Complex fire protection program are documented in Chapter 12.0 of the Standards/Requirements Identification Document (S/RID) and Appendix C of the Work Smart Standards (WSS) for Engineering Design & Construction. These requirements have their origins in the OSHA General Industry and Construction standards, DOE Orders 420.1 and 440.1, National Fire Protection Association codes and standards (including the Life Safety Code), and state laws. Y-12 currently has significant areas of non-compliance with these requirements. These deficiencies have been identified in self-assessments, and confirmed by the Department of Energy (DOE) Headquarters Integrated Safety Management Verification reviews, the Defense Nuclear Facilities Safety Board (DNFSB) staff, and by the National Nuclear Security Administration (NNSA) Y-12 Area Office (YAO). They were reported in a Price-Anderson Amendments Act (PAAA) Noncompliance Tracking System (NTS) report (NTS-ORO-BWXT-Y12SITE-2001-0001), "Programmatic Fire Protection Deficiencies at Y-12." This NTS report stated that the Y-12 Complex fire protection program does not meet documented requirements due to lack of performance of test, maintenance, and inspection of some fixed fire systems; lack of updated Fire Hazard Analyses (FHAs) and Fire Protection Engineering Assessments (FPEAs); lack of a comprehensive fire barrier program; and incomplete configuration control related to fire protection systems.

Y-12 has developed a fire protection corrective action plan (CAP) to address these programmatic issues. This CAP was provided to NNSA YAO. This CAP is focused on the identification of deficiencies to correct and bring the fire protection program in compliance rather than hardware and facility-related corrective actions. Additional actions are being taken to separately address completion of the scope of work of the Life Safety Upgrades line item project; fire protection for the B-1 Wing of Building 9212; and funding of corrective actions for FHA recommendations and other fire protection deficiencies listed in the Y-12 corrective actions data base.

The main component of the comprehensive fire protection CAP is the description of deficient programmatic elements in the form of a Work Breakdown Structure (WBS). The highest priority WBS tasks for overhead funding were identified for Fiscal Year (FY) 2001 and are included in this Schedule of FY 2001 Highest Priority Tasks. These tasks were briefed to the BWXT Y-12 Resource Management Review Board on December 20, 2000, and on January 23, 2001. A further review of resource needs was made by the Fire Protection Operations,

Fire Protection Engineering, and Engineering organizations with input from the Planning and Integration organization to develop the schedule and budget for these FY 2001 highest priority tasks.

Fire Protection Engineering

Facility Fire Safety

Lack of completion of required FHAs and FPEAs will result in inadequate support to Facility Safety authorization basis documents and increased likelihood for incomplete and/or incorrect assessment of fire hazards in facility safety accident analyses. There is an increased potential for serious injury to onsite personnel due to unidentified fire hazards or unidentified deficiencies in required means of egress for personnel in the event of a fire. There is an increased potential for larger fire losses due to unidentified fire hazards and/or inadequate protection. There is an increased potential for impact on vital complex programs and for environmental damage due to fire. The FY 2001 schedule provides for overhead funding to complete six FHAs (two for nuclear facilities and four for chemical hazard facilities). It also provides for overhead funding to complete eight of the highest priority FPEAs. The Schedule of FY 2001 Highest Priority Tasks also provides fire protection engineering support to Y-12 operations during the generation of these analyses and assessments.

Fire Department Operations

Test, Maintenance, and Inspection

Without adequate test, maintenance, and inspection (TMI), the condition of the fixed fire systems within Y-12 will continue to degrade over time. During FY 2001 the highest priority TMI tasks are related to the Edwards System Technology (EST) fire alarm system and twenty-seven specific fire systems that have not received required testing, maintenance, or inspection since 1997.

Deficiencies related to the defective Line Transient Protectors (LTP) installed in the EST fire alarm system were reported in PAAA NTS Report NTS-ORO-BWXT-Y12NUCLEAR-2000-0002, "Deficiencies Associated with Electronic Fire Alarm System." The FY 2001 schedule provides for funding to replace the defective LTPs. The replacements for the defective LTPs are being provided at no cost by the vendor. Concurrently we will replace the initial EST system batteries that have reached the end of their service life. A task team composed of Maintenance, Engineering, and Fire Protection members will also plan for and perform troubleshooting and repair activities to reduce the amount of supervisory and trouble alarm activity currently being experienced with the EST system.

As part of the process of identifying the highest priority systems for TMI, factors such as date since last inspection, type of system, system priority rating, and model of system valve were used. The highest priority dry pipe sprinkler, deluge sprinkler, anti-freeze loop, Fire Cycle sprinkler, pre-action sprinkler, fire pump, and foam water systems were identified. These 27 systems are representative of the fixed fire systems that have received the least testing, maintenance, and inspection in recent years.

The highest priority TMI tasks will initially be worked on an overtime basis. The FY 2001 schedule includes hiring of seven additional fire department staff. These personnel will be applied to support the TMI program. The workload analysis completed for the TMI program showed a continuing need for additional full-time personnel to meet current TMI requirements.

The Schedule of FY 2001 Highest Priority Tasks provides for part-time subcontractor support to perform reviews of FHA and FPEA documents for the Y-12 Fire Department and to assist with developing Fire Department command media.

Schedule

A project-type chart has been developed for the Schedule of FY 2001 Highest Priority Tasks. The chart is based on a start date of March 1, 2001. Attachment 1.

| Activity ID | Description | Orig Estm | Dur | % Comp | Start | Finish | FER | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV |
|-------------|-------------|-----------|-----|--------|-------|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|-------------|-------------|-----------|-----|--------|-------|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|

Fire Hazard Analysis

| | | | | | | | | | | | | | | | | |
|-------|-----------------------|---------|----|----|---------|--|--|--|--|--|--|--|--|--|--|--|
| A0100 | Evaluate Bldg 8720-36 | 01MAR01 | 56 | 56 | 18AUG01 | | | | | | | | | | | |
| A0110 | Evaluate Bldg 8720-12 | 01MAR01 | 66 | 66 | 01JUN01 | | | | | | | | | | | |
| A0120 | Evaluate Bldg 8203 | 01MAR01 | 75 | 75 | 15JUN01 | | | | | | | | | | | |
| A0130 | Evaluate Bldg 8731 | 01MAR01 | 66 | 66 | 01JUN01 | | | | | | | | | | | |
| A0140 | Evaluate Bldg 8720-26 | 01MAR01 | 65 | 65 | 01JUN01 | | | | | | | | | | | |
| A0150 | Evaluate Bldg 8720-27 | 01MAY01 | 52 | 52 | 16JUL01 | | | | | | | | | | | |

Information/Engineering Assessments

| | | | | | | | | | | | | | | | | |
|-------|-------------------------|---------|----|----|---------|--|--|--|--|--|--|--|--|--|--|--|
| A0180 | Bldg 8201-4 Assessment | 01JUN01 | 48 | 48 | 10AUG01 | | | | | | | | | | | |
| A0170 | Bldg 8720-31 Assessment | 01MAR01 | 42 | 42 | 30SEP01 | | | | | | | | | | | |
| A0180 | Bldg 8825-2 Assessment | 02MAR01 | 65 | 65 | 26JUN01 | | | | | | | | | | | |
| A0190 | Bldg 8767-4 Assessment | 01AUG01 | 32 | 32 | 02AUG01 | | | | | | | | | | | |
| A0200 | Bldg 8720-8 Assessment | 02MAY01 | 40 | 40 | 16JUL01 | | | | | | | | | | | |
| A0210 | Bldg 8720-58 Assessment | 01AUG01 | 32 | 32 | 02AUG01 | | | | | | | | | | | |
| A0220 | Bldg 8720-59 Assessment | 02JUL01 | 35 | 35 | 21AUG01 | | | | | | | | | | | |
| A0230 | Bldg 8720-45 Assessment | 02JUL01 | 40 | 40 | 28AUG01 | | | | | | | | | | | |

Test, Maint, and Inspections/Fixed Fire Systems

| | | | | | | | | | | | | | | | | |
|-------|---------------------------------------|---------|-----|-----|---------|--|--|--|--|--|--|--|--|--|--|--|
| C0110 | Deluge System-Cooling Tower | 01MAR01 | 65 | 65 | 29JUN01 | | | | | | | | | | | |
| C0120 | Deluge System-Steam Plant | 06AUG01 | 59 | 59 | 28SEP01 | | | | | | | | | | | |
| C0130 | Deluge System-Transformer | 06AUG01 | 59 | 59 | 28SEP01 | | | | | | | | | | | |
| C0135 | Dry Pipe Systems | 01JUN01 | 83 | 83 | 28SEP01 | | | | | | | | | | | |
| C0140 | Anti-Freeze Loop System | 06AUG01 | 59 | 59 | 28SEP01 | | | | | | | | | | | |
| C0150 | Fire Cycle Systems | 01MAR01 | 65 | 65 | 29JUN01 | | | | | | | | | | | |
| C0160 | Pre-Action Systems | 06AUG01 | 69 | 69 | 28SEP01 | | | | | | | | | | | |
| C0170 | Foam Water Systems | 06AUG01 | 69 | 69 | 28SEP01 | | | | | | | | | | | |
| C0180 | Fire Pump System | 06AUG01 | 69 | 69 | 28SEP01 | | | | | | | | | | | |
| C0190 | Purchase & Replace Fire Extinguishers | 01MAR01 | 147 | 147 | 28SEP01 | | | | | | | | | | | |

Fire Alarm System Support

| | | | | | | | | | | | | | | | | |
|-------|---|---------|-----|-----|---------|--|--|--|--|--|--|--|--|--|--|--|
| B0100 | Decrease Active Points on System | 02MAR01 | 146 | 146 | 28SEP01 | | | | | | | | | | | |
| B0110 | LTP/Batteries/epk, 41 LTR/MS 3 14 Batteries | 02MAR01 | 146 | 146 | 28SEP01 | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | |
|--|-----------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| | Deluge System-Cooling Tower | | | | | | | | | | | | | | | |
| | Deluge System-Steam Plant | | | | | | | | | | | | | | | |
| | Deluge System-Transformer | | | | | | | | | | | | | | | |
| | Anti-Freeze Loop System | | | | | | | | | | | | | | | |
| | Fire Cycle Systems | | | | | | | | | | | | | | | |
| | Dry Pipe Systems | | | | | | | | | | | | | | | |
| | Purchase & Repl | | | | | | | | | | | | | | | |
| | Decrease Active P | | | | | | | | | | | | | | | |

| Activity ID | Description | Orig Estm | Dur | % Comp | Start | Finish | FER | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV |
|-------------|-------------------|-----------|-----|--------|-------|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 01MAR01 | Early Bar | | | | | | | | | | | | | | | |
| 01MAR01 | Progress Bar | | | | | | | | | | | | | | | |
| 28SEP01 | Critical Activity | | | | | | | | | | | | | | | |

| Activity ID | Description | Orig Estm | Dur | % Comp | Start | Finish | FER | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV |
|-------------|-------------------|-----------|-----|--------|-------|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 01MAR01 | Early Bar | | | | | | | | | | | | | | | |
| 01MAR01 | Progress Bar | | | | | | | | | | | | | | | |
| 28SEP01 | Critical Activity | | | | | | | | | | | | | | | |

Y-12 COMPLEX FIRE PROTECTION
FY-01 HIGHEST PRIORITY TASKS

Primavera Systems, Inc.
01MAR01 28SEP01 01MAR01 28SEP01 10AUG01
01MAR01 28SEP01 01MAR01 28SEP01 10AUG01

| Activity ID | Description | Orig Estm | Dur | % Comp | Start | Finish | FER | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV |
|-------------|-------------------|-----------|-----|--------|-------|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 01MAR01 | Early Bar | | | | | | | | | | | | | | | |
| 01MAR01 | Progress Bar | | | | | | | | | | | | | | | |
| 28SEP01 | Critical Activity | | | | | | | | | | | | | | | |

Sheet 1 of 1

01MAR01 28SEP01 01MAR01 28SEP01 10AUG01
01MAR01 28SEP01 01MAR01 28SEP01 10AUG01

| Activity ID | Description | Orig Estm | Dur | % Comp | Start | Finish | FER | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV |
|-------------|-------------------|-----------|-----|--------|-------|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 01MAR01 | Early Bar | | | | | | | | | | | | | | | |
| 01MAR01 | Progress Bar | | | | | | | | | | | | | | | |
| 28SEP01 | Critical Activity | | | | | | | | | | | | | | | |

Sheet 1 of 1

01MAR01 28SEP01 01MAR01 28SEP01 10AUG01
01MAR01 28SEP01 01MAR01 28SEP01 10AUG01

United States Government

Department of Energy
National Nuclear Security Administrator

memorandum

DATE: April 5, 2001

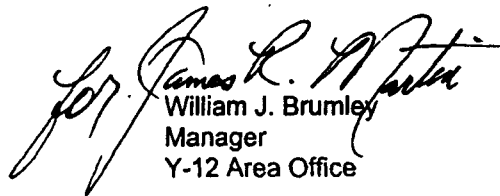
REPLY TO
ATTN OF: NADP-68:Olberding

SUBJECT: **UPDATES TO THE DNFSB ON THE Y-12 FIRE PROTECTION PROGRAM**

TO: David Beck, Assistant Deputy Administrator for Military Application and Stockpile Operations,
DP-20, FORS,

The Y-12 Area Office intends to proactively share information with your Office and the DNFSB on both near and long-term activities on the Y-12 Fire Protection Program. Our strategy, which was coordinated with members of your staff, involves an initial briefing to the DNFSB in the May time-frame. During the initial briefing we will address BWXT's Fire Protection Program Project Team (Charter is attachment 1), which was created to develop a comprehensive site-wide plan, and the status of the funded fire protection activities for FY 2001. The funded schedule for FY 2001 activities was included in my memorandum to you dated March 2, 2001, and was included in the attached presentation which was originally planned to be presented during the DNFSB's visit last week (which was cancelled). After the initial briefing, a followup briefing will be provided in June. Following the submittal of the site-wide fire protection program plan which is scheduled to be delivered to YAO by July 31, another briefing would be presented to the DNFSB. Status reports will continue to be provided to your office as needed. Phil Aiken of your staff and Terry Olberding of my staff will coordinate the proposed briefings with Kent Fortenberry of the DNFSB.

Should you have any questions with respect to this memo, please contact me at (865) 576-0752 or Terry Olberding at (865) 576-2550.


William J. Brumley
Manager
Y-12 Area Office

Attachment

cc w/o attachments:
Phil Aiken, DP-24, GTN
Xavier Ascanio, DP-24, GTN
Sam Johnson, DP-24, GTN
D. K. Hoag, NADP-66, NNSA, YAO
K. D. Ivey, NADP-67, NNSA, YAO
J. R. Martin, NADP-6, NNSA, YAO
Buddy Connor, 9704-2, MS 8002, BWXT Y-12
A.C. Hollins, 9704-2, MS 8013, BWXT Y-12
Jim Hutton, NADP-68, NNSA, YAO
Paul Wasilko, 9704-2, MS 8015, BWXT Y-12
Ken Rhyne, NADP-68, NNSA, YAO



Y/EN-626
Rev.
PRN #Y2001-001

**Y-12
NATIONAL
SECURITY
COMPLEX**

Y-12 Fire Protection Program Project Team Charter

March 2001

Prepared by:
Y12 National Security Complex
Oak Ridge, Tennessee

MANAGED BY
BWXT Y-12, LLC
FOR THE UNITED STATES
DEPARTMENT OF ENERGY

DISCLAIMER

This report was prepared as an account of work sponsored by an agency of the United States Government. Neither the United States Government nor any agency thereof, nor any of their employees, makes any warranty, express or implied, or assumes any legal liability or responsibility for the accuracy, completeness, or usefulness of any information, apparatus, product, or process disclosed, or represents that its use would not infringe privately owned rights. Reference herein to any specific commercial product, process, or service by trade name, trademark, manufacturer, or otherwise, does not necessarily constitute or imply its endorsement, recommendation, or favoring by the United States Government or any agency thereof. The views and opinions of authors expressed herein do not necessarily state or reflect those of the United States Government or any agency thereof.

**Y-12 Fire Protection Program
Project Team Charter**

Approvals:

Paul Wasilko
Paul Wasilko, Project Manager

3-9-01
Date

A. C. Hollins, Jr.
A. C. Hollins, Site Services Director

3/9/01
Date

Jim Holland
Jim Holland, Engineering & Construction Director

3/13/01
Date

Les Reed
Les Reed, ES&H Director

3/9/01
Date

John Mitchell
John Mitchell, President and General Manager

3/15/01
Date

Y-12 Fire Protection Program Project Team Charter

1. Fire Protection Program Project Team

The Fire Protection Program project team will provide guidance and ensure the adequate development and execution of work that addresses existing fire protection programmatic and facility specific deficiencies. This team will develop a plan, strategy, and an organized schedule that integrates Y-12 complex activities associated with the Fire Protection Program into an integrated comprehensive effort contained in two distinct project efforts. These projects will address known deficiencies, evaluate and identify currently unknown requirements and deficiencies, develop and implement appropriate corrective actions, and result in a prioritized high performance and results oriented program. Detailed project execution plans for the following areas will be developed:

1.1 Fire Protection Program deficiencies: (Actions)

- Test, Maintenance, and Inspection (TMI) of fixed fire systems
- Fire Hazard Analysis (FHA)
- Fire Protection Engineering Assessments (FPEA)
- Fire Barrier program
- Configuration Management of systems, drawings, and procedures

1.2 Facility specific deficiencies: (Conditions)

- FHA and Due Diligence items
- 9212 B-1 Wing sprinkler system
- FPEA items
- Other fire deficiencies (non-sprinkler issues, items currently not in ESAMS, etc.)
- Fire Protection projects:
 - EST Fire Alarm system fixes
 - Non-fire alarm items

Each project execution plan will be supported by detailed schedules and estimates with roles and responsibilities defined to assure accountability for the Work Breakdown Structure elements contained in each plan. Plan execution will be tracked and statused by proven Project Management controls and tools.

2. Project Team Membership

Members of the project team are identified in the team roster included as Attachment 1. Team composition will be a mixture of experienced Y-12 employees and new subject matter experts in the areas of Project Management, Project Controls, Fire Protection, and Management.

3. Team Member Roles and Responsibilities

In concert with the project team guidance the roles and responsibilities will be defined based upon project planning methodologies in procedures Y13-002PD, *BWXT Y-12 Project Management Program Description*, and Y13-005INS, *Instructions on GPP, GPE, and MIE Project Management*. Requirements outlined in DOE Good Practice Guide GPG-FM-010, *Project Execution and Engineering Management Planning*, will also be utilized to supplement the current Management Requirements documents. These requirements will be applicable to team members assigned to these projects.

Individual Task Team members are assigned based upon identified project needs and personnel skill mix required to support the scope of work as identified in the *Project Management Plan Tailoring Matrix*, Attachment 2. Changes will require the approval of the Project Task Team.

4. Project Team Function

The Project Team Manager, working with the Project Team and subsequent individual Task Teams, has the overall responsibility for the project, including the identification of funding, technical direction, and assignment of priorities. The Project Team will document major project decisions. The Project Team Manager will report directly to the President and General Manager for this task, with assistance from the directors of the Site Services and ES&H Organizations.

5. Project Planning

A Project Management Plan (PMP) will be developed for each task in accordance with Y13-003INS, *Project Management Plans*. The project charter will be used as the initial controlling document until the PMP is approved.

A Systems Requirements Document (SRD) will be developed in accordance with Y17-69-301, *Identification and Control of System Requirements*, to establish the technical baseline. Functional and performance requirements that each project must accomplish will be defined in the SRD.

6. Methodology for Tracking and Reporting Progress

The Project Management Plan for each task will define the specific method that will be used to monitor performance. Schedule adherence and budget performance will be addressed. For consistency, the same methodology will be used for all tasks and activities. Specific items or deficiencies within the project management plans will be identified which can be completed in a short time period with a sub task team or Fast Response Action Team (FRAT).

7. Document Approval Process

Documents required for these tasks will be prepared in accordance with applicable Y-12 Management Requirements. Unless otherwise specified, the Project Team will be the minimum approval required for documents prepared for this project.

8. Configuration Management and Change Control

Y-12 procedures Y15-004PD, *Configuration Management Program*, and Y15-102, *Document Control*, will be utilized in the management of this project task.

9. Training Requirements

No special training requirements for the Project Team or Task Teams have been identified.

10. Schedule

The initial Project Team schedule and subsequent development and identification of Task Teams will be developed by the Project Team and submitted to the BWXT President and General Manager for approval by April 16, 2001. The execution of these plans will lead to the submission of a BWXT Y-12 Site Wide Fire Protection Program Plan by July 31, 2001. Plans and schedules will be submitted to the National Nuclear Security Administration Y-12 Area Office as they become available.

11. Sources of Funding

Each Task Team will develop estimated costs for each task, by activity and fiscal year. Performance against approved budgets will be reported on a monthly basis.

12. Resources

The Project Team Manager will manage agreements on resource allocation and functional support. The temporary reallocation of existing resources that could improve schedule and workload performance will be made available to the Project Team by senior management.

Attachment 1

Project Team Roster

| Function | Team Member/Alternate |
|---|------------------------------------|
| Project Manager | <i>Paul Wasilko</i> |
| System Owner | Mike Knazovich/Scott Hackler |
| Business Manager | Carol Langley/Beverly Gibson |
| Project Management | Sam Babb/ <i>David Dinse</i> |
| Fire Protection Engr | Bill Brown |
| Design Authority Rep | Steve Cook |
| RTBF Program | Tom Morris |
| Project Advisor | <i>Dennis McIntosh/Tom Donovan</i> |
| Planning & Integration | <i>Del Dreke</i> |
| Quality Assurance | Chuck Moseley |
| Task Manager: Fire Program Deficiencies | Fred Wetzel |
| Task Manager: Facility Specific Deficiencies | Mike Nelson |
| Outside Subject Matter Experts | To be determined |

Note: Names in *italics* represent new personnel formerly not associated with the Fire Program or Project Management

Attachment 2

Y13-003INS

Rev. Date: 08/21/2000

Supersedes: New

Page: 13 of 18

Subject: Project Management Plans

Tailoring Matrix

| PART I - FUNDING SOURCE (select one) | | | |
|--|--|--|---|
| Funding Source | Yes/No (Basis for Determination) | Representatives to Add to Team | If Yes, Project requirements/Potential Documents which must be Considered |
| Line Item | | <ul style="list-style-type: none"> • Identification of Core Project Team consisting of Project Manager (appointed by Director of Modernization), DOE Project Engineer, Operating Organization/System Owner representative, and where design or construction is involved, Design Authority representative • Appointment of Business Manager to Project Team | <ul style="list-style-type: none"> • Project Charter including identification of Project Team • Basic Project Management Plan (see section 3.3) • Cost Estimate • Project Schedule including Critical Decision (CD)-1 through CD-4 submittals including <ul style="list-style-type: none"> ▸ Project Execution Plan (PEP) ▸ Conceptual Design Report (CDR) ▸ Title 1 and 2 Designs and other CD material • Technical Baseline • Other Items as Identified from Part II of this matrix |
| General Plant Project (GPP), Major Items of Equipment, General Plant Equipment | | <ul style="list-style-type: none"> • Identification of Core Project Team consisting of Project Manager (appointed by Director of Modernization), Operating Organization/System Owner representative, DOE Project Engineer (at DOE's discretion), and where design or construction is involved, Design Authority representative • Appointment of Business Manager to Project Team | <ul style="list-style-type: none"> • Project Charter including identification of Project Team • Basic Project Management Plan (see section 3.3) • Schedule for Preliminary Proposal Development where <ol style="list-style-type: none"> 1. GPP and TEC is greater than \$ 1.5 million. or 2. Project is an MIE, or 3. GPE and TEC is greater than \$1.5 million • Other Items as Identified from Part II of this matrix |
| Expense | | <ul style="list-style-type: none"> • Identification of Project Manager and Operating Organization/System Owner representative | <ul style="list-style-type: none"> • Project Charter including identification of Project Team • Basic Project Management Plan • Other Items as Identified from Part II of this matrix |

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| Subject: Project Management Plans |
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| PART II - Individual Issues/concerns potentially affecting the project (select all that apply) | | | |
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| Issue/ Concern | Yes/No (Basis for Determination) | Representatives to Add to Team | If Yes, Project requirements/Potential Documents which must be Considered |
| Potentially involves Radiological or Hazardous Materials | | <ul style="list-style-type: none"> Facility Safety shall be represented on Project Team Emergency Management shall be represented on Project Team | <ul style="list-style-type: none"> Planning for Preliminary/Final Hazard Evaluation Report (HER) or Preliminary/Final SAR is needed if meet thresholds of Y74-802 or Y74-803. Planning for Emergency Management QA Plan is required to meet 10 CFR 830.120 |
| Criticality Safety | | <ul style="list-style-type: none"> Criticality Safety and Facility Safety shall be represented on Project Team | <ul style="list-style-type: none"> Planning for Process System Descriptions is required Planning for System Design Description(s) Planning for Criticality Safety Evaluations is required |
| Authorization Basis Impact | | <ul style="list-style-type: none"> Facility Safety shall be represented on Project Team Facility Manager(s) whose Authorization Basis is impacted shall be represented on Project Team | <ul style="list-style-type: none"> Where authorization basis exists or is impacted (HER, SAR, or Basis for Interim Operations), USQD or change evaluation process shall be applied SAR/BIO/HER |
| Chemical Hazards | | <ul style="list-style-type: none"> Environmental, Safety, and Health shall be represented on Project Team | |
| Environmental Compliance | | <ul style="list-style-type: none"> Environmental Compliance shall be represented on Project Team | |
| Industrial Hygiene | | <ul style="list-style-type: none"> Industrial Hygiene shall be represented on the Project Team. | |
| Industrial Safety | | <ul style="list-style-type: none"> Industrial Safety shall be represented on Project Team | <ul style="list-style-type: none"> Planning for project specific work site and worker requirements |
| Radiological Hazard | | <ul style="list-style-type: none"> Radiological Control Organization shall be represented on Project Team | |

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| Subject: Project Management Plans |
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| PART II - Individual Issues/concerns potentially affecting the project (select all that apply) | | | |
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| Issue/ Concern | Yes/No (Basis for Determination) | Representatives to Add to Team | If Yes, Project requirements/Potential Documents which must be Considered |
| Unproven or State of the Art Technology/ Complex Project | | <ul style="list-style-type: none"> Appoint other Project Team members as required to represent appropriate organizations | <ul style="list-style-type: none"> More Rigorous QA Plan More Rigorous/Extensive Test and Evaluation Plan than would be used on conventional/off-the-shelf technology Increased detail in the schedule Increased level of project reviews (status/design) Engineering Trade-off Studies and Design Studies Systems Engineering GPG-FM-007, Risk Management, contains additional suggested activities to mitigate specific project risks |
| Design | | <ul style="list-style-type: none"> For expense funded design projects, appointment of Project Manager by Technical Operations Design Authority shall be represented and that representative shall be a member of the Core Project Team | <ul style="list-style-type: none"> Planning for Process System Descriptions is required Planning for System Design Description(s) Planning for SSC grading and other design activities |
| Construction | | <ul style="list-style-type: none"> For expense funded construction projects, appointment of Project Manager by Technical Operations A individual with construction experience shall be appointed to the Project Team ESH shall be appropriately represented on the Project Team | <ul style="list-style-type: none"> Determination by Davis Bacon Committee Project requirements for oversight and interfaces for Construction Construction Turnover Plan Preliminary/Final SCWR |
| Maintenance | | <ul style="list-style-type: none"> Maintenance shall be represented on the Project Team | <ul style="list-style-type: none"> Determination by Davis Bacon Committee Project requirements for oversight and interfaces with Maintenance |

Subject: Project Management Plans

| PART II - Individual Issues/concerns potentially affecting the project (select all that apply) | | | |
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| Issue/ Concern | Yes/No (Basis for Determination) | Representatives to Add to Team | If Yes, Project requirements/Potential Documents which must be Considered |
| <p>Controlled Systems may be affected</p> <p>Controlled Systems includes</p> <ul style="list-style-type: none"> • 13.8 KV Power Distribution System • Breathing Air • Criticality • Accident Alarm System • Emergency Notification System • Emergency Power Generators • Helium • Hydrogen • Oxygen • Natural Gas • Public Address System • Security Alarm Systems • Sewer Systems (Sanitary and Storm Water) | | <ul style="list-style-type: none"> • System Owner (Manager) representative shall be appointed to the Project Team • Utilities representative shall be appointed to the Project Team, as appropriate | <ul style="list-style-type: none"> • Planning for project requirements for interfaces with affected systems |

Completed By: _____
Project Manager

Operating Organization/System Owner Representative

Design Authority Representative (where appropriate)