

Title

THREE MILE ISLAND NUCLEAR STATION UNIT 1 FIRE PROTECTION PLAN

Revision No.

0

Applicability Scope

THREE MILE ISLAND NUCLEAR STATION UNIT 1 - FIRE PROTECTION

Responsible Office

T. A. O'Connor

 This document is important to safety ☒ Yes ☐ No

Effective Date

	Signature	Concurring Organizational Element	Date
Originator	<i>Thomas A. O'Connor</i>	TMI-1 Plant Engineering	12-27-83
Concurred by	<i>Fred P. Barbieri</i>	Building Services Mgr. T.F.	1-4-84
	<i>Joseph J. Colitz</i>	Plant Engineering Dir. TMI-1	12-27-83
	<i>R. Fode</i>	Operations & Maintenance Dir. TMI-1	12-29-83
	<i>O. J. Shallick</i> for	Mgr. Plant Training TMI	12/29/83
	<i>H. D. Nobile</i>	Vice President & Director TMI-1	12-29-83
Approved by			
Approved by	<i>P. R. Clark</i>	President - GPUN	1-4-84

1.0 GENERAL

1.1 Scope

This Plan addresses the applicable phases of station operations, quality assurance, maintenance, radiological controls, modifications, inspection, testing and training which impact the fire protection program.

1.2 References

The following referenced documents outline commitments, responsibilities, and methods designed for maintaining fire protection controls:

- a. Fire Hazard Analysis Report and App. R Section III.G. Safe Shutdown Eval.
- b. Appendix A to NRC Branch Technical Position APCSB 9.5-1 dated May 1, 1976.
- c. Three Mile Island Unit 1 Technical Specifications.
- d. D. G. Eisenhower USNRC Director Div. of License letter dated October 6, 1982 to all licensees "Technical Specification for Fire Protection Audits" (Generic letter No. 82-21).
- e. TMI - Emergency Plan.
- f. FSAR - TMI Unit 1.
- g. Operational Quality Assurance Plan.
- h. Other implementing procedures as referenced in Section 6.0.
- i. Administrative Procedure AP 1030 "Fire Protection Program".

2.0 RESPONSIBILITIES AND REQUIREMENTS

- a. The organization to support the responsibilities and requirements of the Fire Protection Program and implementing procedures is shown in Enclosure 1. The organization to support quality assurance is described in the Operational Quality Assurance Plan.

2.1 Office of the President

- a. The Office of the President is responsible for the Fire Protection Plan and its effectiveness and is responsible for coordinating and implementing the program. Authority is delegated to staff personnel trained and experienced in fire protection and nuclear plant safety.

2.2 Vice President - Technical Functions

- a. The Vice President - Technical Functions provides technical support for analysis, design, and modifications that effect fire protection.
- b. The Vice President - Technical Functions is cognizant of the 1 year and 3 year fire protection inspection and audits referenced in Section 6.0 of the TMI Technical Specification.

2.3 Fire Protection Program Coordinator (FPPC)

- a. The FPPC or his designee shall review all modifications to determine the affect on the Fire Hazards Analysis/Fire Protection Program Evaluation per implementing procedures EP-008 and EP-013.

- b. The FPPC shall review and resolve recommendations for technical modifications with the assistance of the Plant Fire Protection Engineer.
- c. The FPPC provides concurrence with the Plant Fire Protection Engineer in resolution of insurance concerns.
- d. The FPPC maintains the Fire Hazards Analysis Reports for TMI Unit 1.

2.4 Fire Protection Review Committee Chairman

- a. The Fire Protection Review Committee Chairman directs a team selected by the FPPC for the Vice President Technical Functions comprised of management representatives or consultants as necessary to fulfill the requirements for conducting the annual inspection and audit of station fire protection plan. The chairman position is filled by a manager appointed by the Vice President Technical Functions. The inspection and audit report is provided to the Office of the President through the Vice President - Technical Functions with recommendations for corrective action and improvements to the Fire Protection Program.

This inspection satisfies the Technical Specification annual inspection requirement.
- b. The members of the Fire Protection Review Committee shall be qualified and shall perform their responsibilities using the guidance in Reference 1.2.d as a basis.
- c. The Fire Protection Review Committee Chairman and FPPC shall schedule the annual inspection with the Lead Fire Protection Engineer to ensure availability for support of the inspection.

- d. The Fire Protection Review Committee Chairman or other representatives on the team performing the annual audit should observe the annual fire drill held with the public fire departments.

2.5 Insurance and Claims Administrator

- a. The Insurance and Claims Administrator shall pursue and resolve issues affecting insurance carriers which are not resolved by routine interfacing between the Fire Protection Program Coordinator, the Plant Fire Protection Engineer, and insurance carrier representatives.

2.6 Vice President & Director, TMI-1

- a. The Vice President & Director, TMI-1 shall ensure that station operations are carried out in accordance with the operating license (including the Technical Specifications); this includes ensuring that the Fire Protection Plan and implementing procedures are followed by station staff.
- b. The Vice President & Director, TMI-1 shall maintain a qualified station staff to conduct operations in accordance with the Fire Protection Program and the technical specifications.
- c. He shall also ensure that required station procedures for implementation of the Fire Protection Plan are current and in effect.
- d. He shall also ensure that regulatory agencies are advised of all reportable occurrences.
- e. The Vice President & Director, TMI-1 shall review the results of all inspections conducted in accordance with the Fire Protection Program and those performed by insurance carriers and regulatory agencies.

2.7 Plant Engineering Director - Unit 1

- a. The Plant Engineering Director provides technical support for the operation, maintenance, and modifications that effect fire protection.

2.8 Plant Fire Protection Engineer (PFPE)

- a. The Plant Fire Protection Engineer provides technical support for the implementation of the Fire Protection Plan at the Station level in the areas of operations, maintenance, engineering, inspection, training, and procurement and reports to the Plant Engineering Director.
- b. The Plant Fire Protection Engineer performs a biennial review of the Fire Protection Plan implementing procedures and initiates changes as required. This review is accomplished in accordance with Administrative Procedure 1001K "Periodic Procedure Review."
- c. Those designs and modifications which are determined to have an impact on fire protection or directly affect the fire protection systems at the station, are presented by the Plant Fire Protection Engineer or by the FPPC to the insurers for review and acceptance prior to implementation. The PFPE is responsible for resolving insurance concerns and securing the concurrence of the FPPC.

The resolved concerns are forwarded to the design organization for implementation.
- d. The Plant Fire Protection Engineer shall function as the site lead on modifications which directly affect fire protection systems.

- e. The Plant Fire Protection Engineer shall maintain a log of open items requiring corrective action affecting station fire protection using Enclosure 2.
- f. The Plant Fire Protection Engineer reviews all fire protection system impairments, maintains a record of impairments, and provides notifications to insurance carriers and tracks the impairments until restoration is made. The control room maintains an impairment log and notifies the plant fire protection engineer as impairments occur. The PFPE is responsible for providing backup protection capabilities during impairments when additional capabilities are required by the insurance carriers, the Technical Specification or good fire protection practices. Enclosure 3 is used to record impairments.
- g. The Plant Fire Protection Engineer provides assistance and coordination for the off-site Fire Departments to optimize the effectiveness of the off-site Fire Departments when on-site. This is obtained by providing technical assistance for the Fire Brigade and the training program offered to the off-site Fire Departments.
- h. The Plant Fire Protection Engineer maintains and develops fire fighting pre-plan strategies for nuclear safety related areas and should develop fire fighting pre-plan strategies for non-nuclear safety related areas.
- i. The Plant Fire Protection Engineer should prepare fire brigade bulletins for distribution to fire brigade members and the training department on plant modifications as they are completed if they impact the fire protection plan.

- j. The Plant Fire Protection Engineer annually reviews the fire brigade training program and provides an evaluation of technical content to the Manager of Training. This is an ongoing review performed as each period of training is presented.
- k. The Plant Fire Protection Engineer shall review all program descriptions and lesson plans related to Fire Brigade training, observe and critique Fire Brigade drills, and provide technical input into the fire protection portion of General Employee Training.
- l. The Plant Fire Protection Engineer should perform weekly station inspections of all permanent plant structures and as time permits, temporary structures. The inspection results will be documented using Enclosure 4 to track open items for resolution. These inspections implement the requirements of Administrative Procedure 1035; "Control of Transient Combustible Material."
- m. The Plant Fire Protection Engineer shall review the results of Fire Protection System Surveillance Testing.

2.9 Vice President - Nuclear Assurance

The Vice President, Nuclear Assurance Division is responsible through the Quality Assurance, Training and Emergency Preparedness Departments for various phases (both functional and review/audit) of the Fire Protection Program. These responsibilities are performed in accordance with Reference 1.2.g.

2.10 Manager-Plant Training

- a. The Manager-Plant Training is responsible for ensuring the development, implementation, and administration of the Fire Protection Training Program.

- b. The Manager - Plant Training ensures that training procedures and lesson plans are provided for the training of station fire brigade and public fire department personnel, and that the records of training are maintained as required by the Technical Specifications.
- c. He ensures that results of the annual review of the fire brigade training program are incorporated into the training program.
- d. He ensures that the Fire Brigade Training Coordinator maintains the qualification as a Local Level State Certified Instructor and additional instructor qualification requirements as outlined in Training Department Procedures.

2.11 Deputy Manager - Plant Training

- a. The Deputy Manager - Plant Training is responsible for the general supervision of the development, implementation, and administration of the Fire Protection Training Program including approving lesson plans used for fire brigade instruction.

2.12 Fire Brigade Training Coordinator (FBTC)

- a. The FBTC is responsible for preparation and maintenance of the fire brigade training program including lesson plans.
- b. The FBTC is responsible for scheduling, evaluating, and critiquing the fire brigade drills and quarterly providing a composite summary of the drill critiques to cognizant departments. He is responsible for scheduling and conducting at least one fire drill per year involving the on-site fire brigade and the off-site Fire Departments.

- h. The FBTC shall track fire brigade training attendance and provide monthly a summary of who has met the training requirements of Section 4.0 to the cognizant departments. It is the responsibility of the cognizant departments to ensure that personnel attend the required training to maintain qualification as fire brigade members. It is the responsibility of the cognizant department to verify and ensure that other training qualification requirements (RWT, Respirator, SCBA, Physical Exams) have been satisfied.
- i. The FBTC is responsible to notify the Fire Protection Review Committee Chairman and FPFC of the scenario for and the date of the annual drill with off-site Fire Department assistance.
- j. The FBTC is responsible for preparation, maintenance, and administration of the fire brigade training examination bank.
- k. The FBTC is responsible to provide the Fire Brigade Leaders with selected topics and an outline covering the topic for the monthly meetings.

2.13 Emergency Preparedness Manager

- a. He coordinates with the Fire Brigade Training Coordinator in the development of the fire drill scenario plans and drill critique evaluations for any Emergency Plan exercises involving fire fighting activities.
- b. He is responsible for maintaining the agreements with the public fire departments, ambulance services, and hospitals to support the Emergency Plan. Reference 1.2.e.

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2.14 Fire Brigade

- a. The purpose of the Fire Brigade (5 man team) in the event of a fire is to:

1. Protect the health and safety of the public and employees.
2. Maintain the plant in a safe stable condition.
3. Limit damage from the fire.
4. Contain and eliminate the fire.

The above purposes are accomplished by the fire brigade with the support of local volunteer fire companies when required. The fire brigade response requirements and duties are outlined in EP 1202-31

"Emergency Procedure - Fire". Selected personnel (non-fire brigade members) receive training annually on their support role.

- b. The Fire Brigade Leader is responsible for directing the fire

brigade members in the performance of the brigade responsibilities.

The brigade is required to interface with licensed personnel (Shift Supervisor/Shift Foreman) during fire conditions. (See 2.14.a.2.) The brigade leader is also responsible for conducting the monthly meetings with the fire brigade.

- c. The fire brigade members are responsible for performing the fire brigade responsibilities under the direction of the brigade leader.

The fire brigade consists of a fire brigade team leader and four trained members from the Operations and Shift Maintenance Departments. The Operations Department will provide 2 "A" Auxiliary Operators. The other 2 positions may be filled by the Mechanical or Electrical Maintenance discipline or by additional "A", "B", or "C" Auxiliary Operators. Brigade members are assigned to the watchbill at the start of each shift and advised of their assignment. The fire brigade members assigned to the fire brigade cannot be part of the Technical Specification required minimum control room shift crew.

The same personnel may serve as the fire brigade for both Unit 1 and Unit 2 per Technical Specification 6.2.2.g only if the members have received the required Unit 2 specific training (e.g., fire protection system, pre-plans, etc.). The fire brigade members are required to attend the monthly meetings that are conducted by the Fire Brigade Leader. If the monthly meeting is missed, makeup will require the member to review the meeting subject information in the required reading file.

- d. The Radiological Control Technician assigned to support the fire brigade watchbill is responsible for performing radiation monitoring when necessary. He shall advise the Fire Brigade Leader of actions required for fire brigade member protection from radiological hazards. Additional support may be provided as outlined in the TMI-1 Emergency Plan. The Radiological Control Technician does not perform fire fighting activities. Fire brigade qualification requirements do not apply to the position.
- e. The Shift Supervisor is responsible to direct the Shift Foreman or Control Room Operator to respond to the fire scene when fires are located in Safety Related Areas. The Shift Foreman or Control Room Operator shall interface with the Fire Brigade Leader with respect to the effects the fire will have on plant safety systems.

3.0 FIRE BRIGADE MANNING

3.1 The normal On-Shift fire brigade consists of the following personnel:

1. Brigade Leader - Shift Maintenance Foreman.
2. Brigade Members - 2 "A" Auxiliary Operators.
- 2 Maintenance Personnel or additional
Auxiliary Operators. (A, B, or C classification)

3. Radiological Control Technician - 1 Radiological Control Technician.

: NOTE: The Radiological Control Technician does not perform fire fighting :
: activities. Fire Brigade qualification requirements do not apply :
: to the position. The technician is assigned to the watchbill for :
: Radiation Control support only to ensure immediate radiation :
: control response to the scene. :

4.0 FIRE BRIGADE TRAINING AND QUALIFICATION REQUIREMENTS

4.1 Fire Brigade Member Initial Training Program

- a. All fire brigade members except Radiological Control Technicians must complete the fire brigade member initial training program before being placed on the fire brigade watchbill. The initial training program consists of the following items (course objectives and outlines can be found in Training Procedure 6210-ADM-2620.03):

Fire Protection Program and Plan.

Emergency/Alarm Response Procedures.

Fire Chemistry.

Fire Brigade Equipment.

Installed Plant Systems.

Fire Fighting Pre-plans.

Fire Tactics/Salvage.

Communication/Interface with Public Fire Departments.

Search/Rescue Techniques.

Portable Respiratory Equipment.

Fire Behavior and Classification.

Practical-Live Fire Training

Portable Extinguishers

Fire Stream Application.

Fire Ground Evolution.

- b. Complete the respirator training and qualification requirements, including the satisfactory completion of the physical examination for the use of a SCBA (Self Contained Breathing Apparatus) and full face piece negative pressure air purifying respirator.
- c. Complete the General Employee Training program for radiation workers.

4.2 Fire Brigade Team Leader Initial Training Program

- a. Must complete the same initial training and qualification requirements as outlined for a new fire brigade member as described in Section 4.1
- b. Complete the fire brigade team leader training session and examination on the subject material.
- c. Must have satisfactory performance in one fire drill as the Fire Brigade Leader. A walkthrough fire drill will not be used to satisfy this requirement.

4.3 Fire Brigade Member Retraining Program

To maintain eligibility for fire brigade duties, members must:

- a. Participate in the annual practical live fire fighting training session conducted by the Fire Brigade Training Coordinator. The annual practical session consists of fire ground evolutions, such as fire stream applications, use of portable extinguishers, and interior fire fighting tactics. This annual session may include a walkthrough fire drill exercise. Walkthrough fire drills are not used to satisfy the two drills per year requirement.
- b. Participation in a two year training program structured to provide quarterly classroom instruction with the entire initial program repeated over a two year period. Fire brigade members are required to attend the quarterly sessions to remain qualified. Fire brigade

members, upon completing each quarters training, will be given the opportunity to evaluate and comment on the training provided.

For missed quarterly training, personnel will be required to complete a make-up session prior to being placed on the watchbill. Examinations (Cat. II) will be given for all quarterly classroom training for the purpose of evaluating the course effectiveness.

- c. Maintain respirator qualification, including satisfactory completion of the annual physical examination, for the use of a SCBA (Self Contained Breathing Apparatus) and full face piece negative pressure air purifying respirator.
- d. Each fire brigade member shall participate in at least two fire drills per year to remain qualified. Walkthrough fire drills are not used to satisfy the two drills per year requirement. If a fire brigade member does not satisfy the two drills per year requirement, the person can no longer be placed on the watchbill. To be placed back on the watchbill, the person must participate as an extra brigade member in an announced drill conducted for the purpose of requalifying this member. Other participants also receive credit for this type fire drill.
- e. Members are required to attend monthly meetings conducted by the brigade leader using Training Department provided materials. Monthly meeting subjects include preplans, brigade bulletins on new or changed hazards and equipment operation tips. Missed meetings will be made up via the required reading file. The fire brigade team leaders shall submit training attendance records to the FBTC at the completion of each meeting.

4.4 Fire Brigade Team Leader Retraining Program

- a. Must complete the same training and qualification requirements as outlined for a fire brigade member.
- b. Must complete the fire brigade team leader training every two years.
- c. Each Fire Brigade Leader shall participate in at least two fire drills per year as the Fire Brigade Leader to remain qualified. Walkthrough fire drills are not used to satisfy the two drills per year requirement.

4.5 Other Employee Fire Protection Training Program

- a. All employees shall receive instruction under general employee training on actions required of personnel on discovering a fire. The actions of the Fire Brigade and discovering personnel are described in Emergency Procedure 1202-31 "Fire".
- b. Selected personnel of Plant Operations (SRO/CRO), Radiation Control, Security, and Maintenance Departments shall attend an annual training program on their support role for the fire brigade. These non-fire brigade members will assist the fire brigade in meeting the requirements outlined in Section 2.14.
- c. An annual firewatch training program is required for personnel who will be assigned fire watch duties. This training program shall familiarize the firewatch with the requirements of Maintenance Procedure 1410-Y-26. This training is required for firewatch qualification in addition to that required in Section 4.5.a.

4.6 Fire Drill Requirements

- 4.6.1 Fire brigade drills should be performed in the plant so that the fire brigade can practice as a team.
- 4.6.2 Drills shall be performed quarterly for each operating shift (1 drill/shift/quarter). Efforts should be made to occasionally conduct drills under adverse weather conditions to work out special procedures needed under those conditions.
Each shift fire brigade member should participate in each drill, but must participate in at least two drills per year.

- NOTE: 1. A sufficient number of these drills, but not less than one for each shift fire brigade per year, should be unannounced to determine the fire fighting readiness of the plant fire brigade, brigade leader, and fire protection systems and equipment. Persons planning and authorizing an unannounced drill should ensure that the responding shift fire brigade members are not aware that a drill is being planned until it is begun. Unannounced drills should not be scheduled closer than 4 weeks for the same shift team. At least one drill per year should be performed on a "back shift" for each shift fire brigade.
2. Unsatisfactory drill performance shall be followed by a repeat drill within 30 days.
- 3. Communications Department notification is required of all drills including unannounced drills.

4.6.3 The drills shall be preplanned to establish the training

objectives of the drill and shall be critiqued to determine

how well the training objectives have been met.

4.6.4 The fire brigade participates in at least one annual drill with

local fire department participation. Only the fire brigade

on shift at the time of this drill is required to participate.

4.b.5. At 3-year intervals, a randomly selected unannounced drill should be critiqued by qualified individuals independent of the licensee's staff as part of the 3 yr. inspect. and audit. The FBTC shall advise the inspection and audit team and the FPPC of the schedule and scenario for this drill. A copy of the written report from such individuals should be available for NRC review.

4.6.6 Drills should as a minimum include the following:

1. Assessment of fire alarm effectiveness, time required to notify and assemble fire brigade, and selection, placement, and use of equipment and fire fighting strategies.
2. Assessment of each brigade member's knowledge of their role in the fire fighting strategy for the area assumed

to contain the fire. Assessment of the brigade member's conformance with established plant fire fighting procedures and use of fire fighting equipment, including self-contained emergency breathing apparatus, communication equipment, and ventilation equipment, to the extent practicable.

3. The simulated use of fire fighting equipment required to cope with the situation and type of fire selected for the drill. Efforts shall be made to minimize simulation of any activity. The area and type of fire chosen for the drill should differ from those used in the previous drills so that brigade members are trained in fighting fires in various plant areas. The situation selected should simulate the size and arrangement of a fire that could reasonably occur in the area selected, allowing for fire development due to the time required to respond, to obtain equipment, and organize for the fire, assuming loss of automatic suppression capability.
 4. Assessment of brigade leader's direction of the fire fighting effort as to thoroughness, accuracy, and effectiveness.
 5. Assessment of brigade's interface with off-site Fire Departments.
- 4.6.7. Fire Drill Critique Sheets shall be completed by each drill observer and forwarded to the Fire Brigade Training Coordinator. (See Enclosure 7).

5.0 SUMMARY OF INSPECTIONS

: NOTE: These are in addition to those required by Reference 1.3.h., the :
: Operational Quality Assurance Plan with exception of the biennial :
: audit requirement. :

a. Weekly

1. Station inspection to determine level of good fire protection by the Plant Fire Protection Engineer.

b. Annual

1. An independent fire protection and loss prevention inspection and audit performed utilizing either qualified off-site license personnel (Fire Protection Review Committee) or an outside fire protection firm. This inspection and audit is performed using the guidance in Reference 1.2.d. (Reference 1.2.c. requirement).
2. Review of technical content and quality of fire brigade training program by the Plant Fire Protection Engineer.
3. Review of the Fire Protection Program Plan and initiation of revisions as necessary by the Plant Fire Protection Engineer.

c. Biennial

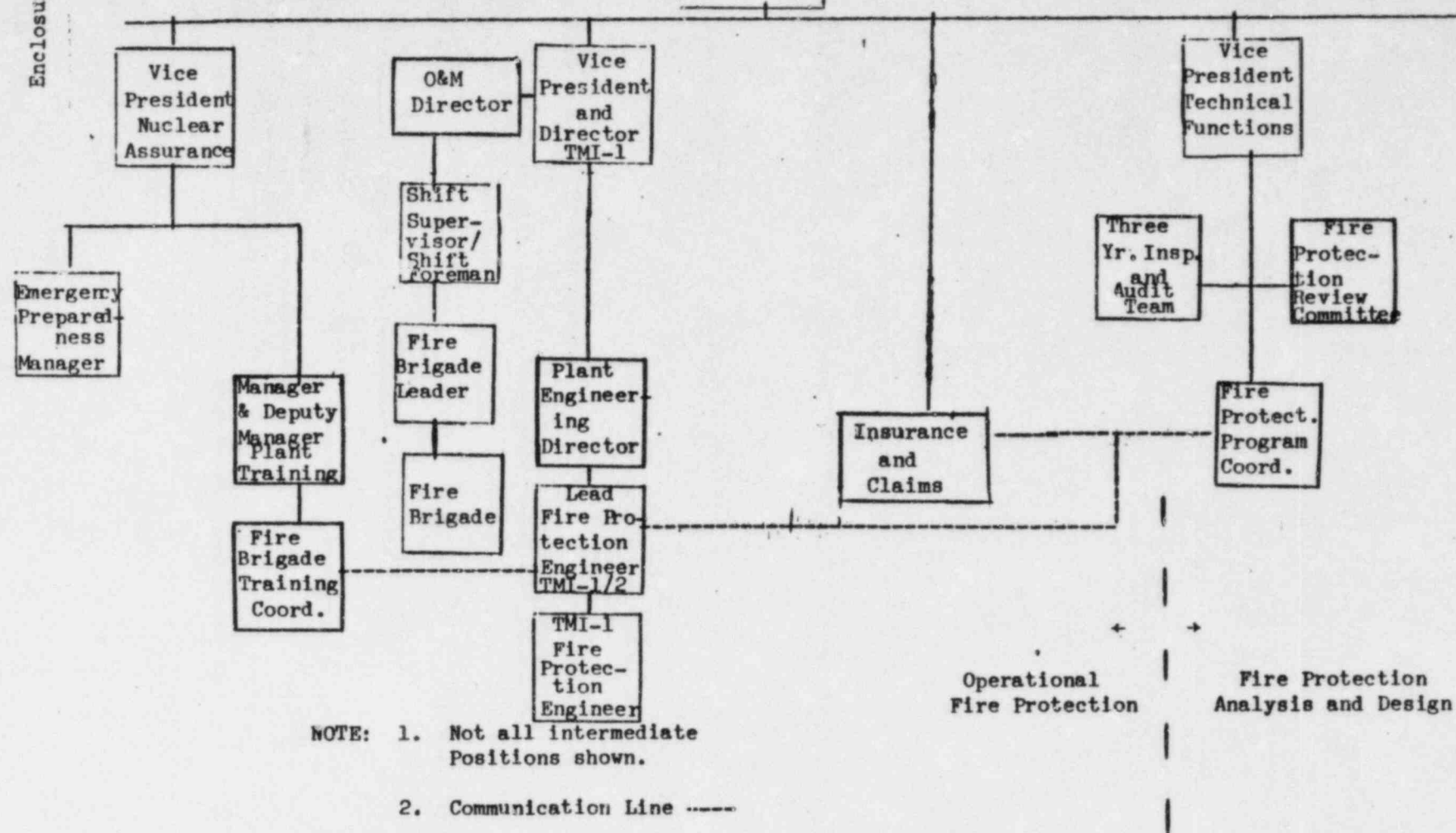
1. An audit performed by Quality Assurance on the Fire Protection Plan and implementing procedures. (References 1.2.c. and 1.2.g. requirements).
2. Review of the Fire Protection Plan implementing procedures and initiation of revisions as necessary by the Plant Fire Protection Engineer.

d. Three years

1. An inspection and audit of the fire protection and loss prevention program by an outside qualified fire consultant using the guidance in Reference 1.2.d. (Reference 1.2.c. requirement). A copy of the written report will be made available for NRC review.

6.0 IMPLEMENTING PROCEDURES

- a. Plant modifications, fire hazard analysis, and annual audit and inspection procedures.
- b. Corrective and preventative maintenance procedures related to fire protection systems and equipment and those controlling cutting and welding operations.
- c. Technical specification surveillance and Operation's surveillance program procedures related to fire protection systems and equipment.
- d. Station Emergency Plan, fire emergency and fire alarm response procedures.
- e. Fire protection system operating procedures.
- f. Administrative Procedures covering housekeeping (Administrative Procedure 1008) and Control of Transient and Combustible Materials (Administrative Procedure 1035).
- g. Fire Brigade Training Program Procedure 6210-ADM-2620.03.
- h. General Employee Training Program Procedure 6210-ADM-2623.04.
- i. Control of Examinations Procedure 6200-ADM-2600.01.



TMI FIRE PROTECTION ORGANIZATION

UNIT 2 : :

[illegible]

Enclosure 3

ENCLOSURE 3

TMI STATION IMPAIRMENT

NOTIFICATION LOG

ANI: 1-203-677-7305
OR 1-800-243-3172/3173

[illegible]

Beitrag:

Inspector. Date:

[illegible]

Enclosure 5

DRILL/TRAINING
DEFICIENCY LIST

[illegible]

FIRE BRIGADE TRAINING EVALUATION

Instructions to the evaluator:

We would like your honest assessment of the program/lesson you have just completed. Please answer all questions as completely as possible. Be specific. Your comments, appreciation, constructive criticism and suggestions are all welcome - and should allow us to strengthen future programs.

Program/Lesson Title: _____ Date: _____

1. Were the program/lesson objectives well defined and easily understood?
☐ Yes Comments: _____
☐ No _____

2. How appropriate was the length of the program/lesson for meeting the objectives?
☐ Too Long Comments: _____
☐ Satisfactory _____
☐ Too Short _____

3. How appropriate was the program/length content in relation to your fire brigade duties/responsibilities?
☐ Excellent Comments: _____
☐ Satisfactory _____
☐ Marginal _____
☐ Unsatisfactory _____

4. Are there any areas which you feel should be
a) Added or Emphasized?
☐ Yes If yes, what? _____
☐ No _____

3) Deleted or De-emphasized?

() Yes

If yes, what?

() No

5. Was any conflicting information presented during this program/lesson?

() Yes

If yes, what?

() No

6. Were the presentation methods appropriate for the material covered?

() Yes

Comments:

() No

7. Quality of Instruction:

Instructors

Comments

_____	/	/	/	/	/	/	/	/	/	/	/	_____
	10	8	6	4	2	0						
_____	/	/	/	/	/	/	/	/	/	/	/	_____
	10	8	6	4	2	0						
_____	/	/	/	/	/	/	/	/	/	/	/	_____
	10	8	6	4	2	0						

8. Do you feel the training aids and equipment used including demonstrations, were adequate in presenting what the fire brigade needs to know? Are there other's that should be used? () YES () NO

COMMENTS:

9. Do you feel any of the above instructors could increase their effectiveness? How?

10. How would you describe the text/handout for this program/lesson?

() Excellent

Comments/Suggestions: _____

() Satisfactory

() Marginal

() Unsatisfactory

11. How would you describe the classroom facilities used for this program/lesson? (Room: _____)

() Excellent

Comments/Suggestions: _____

() Satisfactory

() Marginal

() Unsatisfactory

12. a) What did you like best about the program/lesson?

- b) What did you like least about the program/lesson?

THI NUCLEAR STATION
FIRE DRILL SCENARIO/CRITIQUE
UNIT 1/2

1.0 DRILL NUMBER:

Quarter _____ Unit _____ Shift _____ Year _____

Announced/Unannounced (Circle One) Dayshift/Backshift (Circle one)

2.0 FIRE BRIGADE DRILL PLAN

2.1 Location(s) _____

2.2 Scenario: _____

2.2.1 Simulated Conditions:

- a.
- b.
- c.
- d.
- e.
- f.

2.3 Drill Initiation:

2.3.1 Date _____
2.3.2 Time _____
2.3.3 Initiator _____
2.3.4 Method _____
2.3.5 Weather Conditions _____
2.3.6 Equipment Lockers Open _____

Enclosure

3.0 OBSERVERS/ASSIGNMENT

_____/_____
_____/_____
_____/_____

4.0 RESPONDING PERSONNEL

_____	_____
_____	_____
_____	_____
_____	_____

5.0 OBJECTIVES

S - Satisfactory
 US - Unsatisfactory
 N/A - Not applicable
 (Circle one)

5.1	The assessment of fire alarm effectiveness to notify and assemble the Fire Brigade	S	US	N/A
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Comments/Recommendations

5.2	The assessment of the Brigade Leader's direction of the fire fighting effort as to thoroughness, accuracy and effectiveness.	S	US	N/A
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Comments/Recommendations

5.3 The assessment of the clarity
of, and the knowledge of each
fire brigade member's role.

S US N/A

Comments/Recommendations

5.4 The assessment of Safety
Procedures

5.4.1 Initial evaluation of
the area for life safety

S US N/A

Comments/Recommendations

5.4.2 Initiation of proper
life safety procedures,
if necessary

S US N/A

Comments/Recommendations

5.4.3 Evaluation of radiation
exposure

S US N/A

Comments/Recommendations

5.4.4 Initiation of proper
radiation protection
procedures, if necessary

S US N/A

Comments/Recommendations

5.4.5 Evaluation of exposures,
other than radiation

S US N/A

Comments/Recommendations

5.4.6 Wearing of proper
fire fighting gear

S US N/A

Comments/Recommendations

5.4.7 Wearing of self contained
breathing apparatus, if
necessary

S US N/A

Comments/Recommendations

5.4.8 Did not take unnecessary
risks

S US N/A

Comments/Recommendations

5.5 The Assessment of fire fighting procedures:

5.5.1	Approach to the area for confinement of the fire	S	US	N/A
-------	---	---	----	-----

Comments/Recommendations

5.5.2	Use of appropriate equipment to cope with the situation and type of fire	S	US	N/A
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5.5.3	Assessment of selection of extinguishing agent used H ₂ O D.C. Halon CO ₂ (Circle the agent used)	S	US	N/A
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Comments/Recommendations

5.5.4 Assessment of ventilation,
if necessary

S US N/A

Comments/Recommendations

5.5.5 Assessment of communication
between Brigade Leader and
Control Room

S US N/A

Comments/Recommendations

5.5.6 Assessment of communications
between the Brigade Leader
and Brigade Members

S US N/A

Comments/Recommendations

5.5.7 Assessment of the
 appropriateness of the
 call for outside assistance
 if necessary

S US N/A

Comments/Recommendations

5.5.8 Assessment of post fire
 actions

S US N/A

Comments/Recommendations

5.6 Assessment of Security response to
 the affected area

S US N/A

Comments/Recommendations

5.7 Assessment of the overall effectiveness
of the brigade combating the hypothetical fire

S

US

N/A

Comments/Recommendations

5.8 Additional Comments

5.9 Results of Critique - include comments made by brigade members:

Observer's Signature

Date

