

Fire Protection Outline

Signature of Person(s) Completing Outline:

Date:

Phone Number:

1.0 GENERAL

- 1.1 Total Project Cost:
- 1.2 Design Stage (%)_:
- 1.3 What NFPA 101 Life Safety Code Edition is being utilized?
- 1.4 Identify any existing equivalencies for the space/building (FSES, standard, JCAHO). (See Chief Engineering)
- 1.5 Identify the type of construction (NFPA 220).
- 1.6 Identify the primary occupancy.
- 1.7 Identify (location and type) any sub-occupancies.
- 1.8 Identify any fire rated occupancy separations.

2.0 EGRESS

- 2.1 Identify the number of exits per floor/space.
- 2.2 Identify the number of horizontal exits utilized.
- 2.3 What is the occupant load (per zone/ floor/ space)?

- 2.4 Where and what is the maximum travel distance?
(Per floor)
- 2.5 Where and what is the maximum dead end? (Per floor)
- 2.6 Where and what is the maximum common path of travel? (Per floor)
- 2.7 Identify exit discharge protection from the weather and that it leads to a public way.
- 2.8 Identify the location of all power operated doors.
- 2.9 Identify which rooms require egress through an intervening room before accessing a corridor.
- 2.10 Identify which rooms and or suites are:
 - 2.10.1 Used for an assembly type Occupancy that are ≥ 750 sq. ft.
 - 2.10.2 Used for patient sleeping ≥ 1000 sq. ft.
 - 2.10.3 Used for other than patient sleeping ≥ 2500 sq.ft.

3.0 VERTICAL OPENINGS

- 3.1 What is the fire resistive rating of the vertical opening enclosures? (All shafts including chutes)
- 3.2 What is the fire resistance rating of the vertical opening protective devices?

4.0 - HAZARDOUS AREAS

- 4.1 Identify the hazardous areas (BY room) that require one hour fire resistance construction and 45 minute rated doors.
- 4.2 Identify the hazardous areas (By room) that require floor to floor smoke resistant construction and self closing doors.
- 4.3 What is the classification of the laboratory(s) per NFPA 99 (Severe, Standard) or NFPA 45 (At B, C)?

NFPA 99

NFPA 45

5.0 SMOKE ZONE DIMENSIONS

- 5.1 How many smoke zones are shown on the drawings per floor.
- 5.2 Identify the total square footage of each of the smoke zones.
- 5.3 Identify the square footage required for the area of refuge for the occupants of each smoke zone.
- 5.4 What is the maximum travel distance to a smoke barrier door in each smoke zone.

6.0 CORRIDOR WALLS AND PARTITIONS

- 6.1 Identify the fire resistance rating of the corridor partitions.
- 6.2 Identify all spaces which are open to the corridor and the code reference which permits this.

7.0 HVAC

- 7.1 What edition of NFPA 90A is being utilized?
- 7.2 Identify where systems other than fully ducted systems are used.
- 7.3 Identify HVAC drawings where smoke dampers are installed.
- 7.4 Identify where automatic shut down features are shown, including the detectors, for AHU's \geq 2,000 cfm.
- 7.5 Identify any shafts enclosing environmental air ducts which also serve duct work other than environmental air. (Vapors, fume, etc.)
- 7.6 If laboratories are addressed in this project, what code and edition is being utilized?

<i>NFPA 45</i>	<i>Ed.</i>
<i>NFPA 99</i>	<i>Ed.</i>
- 7.7 *Identify any locations on the drawings where ventilation systems involve anesthetizing locations.*
- 7.8 Identify any locations on the drawings where cooking equipment is

installed.

- 7.9 What edition of NFPA 96
is being utilized?

8.0 PLUMBING (Medical Gases)

- 8.1 Identify the drawings
that show the location of
any medical gas riser and
sectional valves.
- 8.2 Identify the drawings
that show the location of
the medical gas high/low
pressure alarm systems.

9.0 SPRINKLERS/STANDPIPES

- 9.1 What edition of NFPA 13
is being utilized?
- 9.2 Where is the point of
connection to the water
supply for fire protection?
- 9.3 What is the available
fire protection water
supply? (Static pressure,
residual pressure,
capacity.) What is the
source and date of the
water supply information.
- 9.4 Where is it shown that
the sprinklers are
coordinated with the
smoke and fire alarm
zones?
- 9.5 Identify locations where
any special systems are
used. (Preaction, dry-
pipe, antifreeze, etc..)
- 9.6. It is expected that
sprinklers will be
installed throughout the
facility. Identify any
areas in this project
where sprinklers will not
be installed. (Crawl

spaces etc..)

- 9.7 Identify locations on the drawings where the sprinkler system drains terminate.

- 9.8 Where combined sprinkler and standpipe systems are utilized, identify on the drawings the location of the riser isolation valves?

10. 0 ELECTRICAL

- 10.1 What edition of NFPA 70 is being utilized?
- 10.2 What edition of NFPA 99 is being utilized?
- 10.3 Are all circuits in this building (essential and non essential) supplied by the emergency generator?
- 10.4 What is the total load on the emergency generator?
- 10.5 What is the nameplate rating of the emergency generator?
- 10.6 Identify the drawings which show that the following items are on the life safety branch of the essential electrical system: Exit Signs, illumination of means of egress,, alarm and alerting systems, communication systems, generator set location, and elevator controls/signals.
- 10.7 Identify the location of the GFCI circuits.

11.0 FIRE ALARM

- 11.1 What edition of NFPA 72 is being utilized?
- 11.2 Identify where it is shown that the fire alarm zones are coordinated

with the smoke and
sprinkler zones.

- 11.3 Identify all types and areas covered by each type of occupant notification signal(s) provided? (General evacuation/coded/voice)
- 11.4 Where in the documents is the interface between the fire alarm system and the following systems provided:
 - 11.4.1 Sprinkler (tamper, pump, flow switches)
 - 11.4.2 Cooking hood
 - 11.4.3 HVAC (detectors, shut-down
 - 11.4.4 Elevator control
 - 11.4.5 Door release
 - 11.4.6 Power operated door
- 11.5 Where is the point of connection to the existing fire alarm system?
- 11.6 What type of fire alarm system exists? (Mfg., Model No.s of panels, initiating and audible devices.)
- 11.7 Identify location, other than at smoke barrier doors and elevator lobbies, where smoke detectors are provided?
- 11.8 Identify location where heat detectors are provided?

12.0 OPERATING FEATURES

- 12.1 Identify where in the documents on phasing, the fire alarm fire suppression/standpipes, and means of egress are maintained,, put into operation, or otherwise affected.
- 12.2 What interim life safety measures as required by the JCAHO have been established?
- 12.3 What drawings show the locations of the fire extinguishers?

13. 0 SPECIFICATIONS

- 13.1 Identify where the class of the interior finish for the exits and corridors is noted.
- 13.2 Identify where the class of interior finish for rooms is noted.
- 13.3 Are the specifications tailored to this project?
- 13.4 Have the dates been updated in all specification sections for the applicable publications?

End

October 31, 2000

SAMPLE LETTER

COR

Fire Protection Outline--Directions

Architectural/Engineering Firm

1. The following directions are provided to assist the A/E in providing responses to the Fire Protection Outline.
2. Where the outline states to "identify" you are asked to direct the reviewer to the appropriate drawings and specification sections which will completely answer the statement or question. Some questions ask for specific room number locations.
3. It is intended that you write the answers in the space provided. This form should be reproduced and multiple forms used in those circumstances where the questions look for answers on a per floor or per building basis and one form would not adequately handle the responses.
4. Where there are questions concerning subject matter which is not part of the project, simply place not applicable (NA) in the space provided.
5. After the outline is completed, the A/E shall have the appropriate personnel sign and date the outline and provide a phone number in the space provided.
6. If there are any questions as to the outline content, please contact the COR.

COR

Review By: Peter A. Larrimer, RSFPE Phone No: (412) 365-5466 Date: October 31, 2000 Page - 1
Facility: Altoona Project Title (%): This is a space for 165 characters of title. The font for the Date on Dwgs:
headings are CG Times (scalable) 12 pt and sized (ctr-F8)
Project No: 503-01-101 superscripted. The line spacing is .75". October 31, 2000

ITEM NO:	MANDATORY COMMENTS (* Indicates Advisory Comments)	RESOLUTION (Provided by MC or A /E)
93-1	This is a sample of the output from an eastern region project review report along with the type of font used. The type of font used in the header is critical although the type used for ones' individual comments is arbitrary. This in courier 12 cpi.	
93-2	I have used call lack (function in the table settings) to allow the heading to be used s a fill in type form which protects the spaces which should not be changed such as "Review By:" etc.	
93-3	The font used for the Item No, Mandatory Comments and RESOLUTIONS is cg times (scalable) 12 pt bold and a bold attribute. The Eastern Region... too.) Items in parenthesis are italicized.	

SAMPLE

