

POWER AUTHORITY OF THE STATE OF NEW YORK

10 COLUMBUS CIRCLE New York, N. Y. 10019  
(212) 397-6200

TRUSTEES  
JOHN S. DYSON  
CHAIRMAN  
GEORGE L. INGALLS  
VICE CHAIRMAN  
RICHARD M. FLYNN  
ROBERT I. MILLONZI  
FREDERICK R. CLARK



GEORGE T. BERRY  
PRESIDENT & CHIEF  
OPERATING OFFICER  
JOHN W. BOSTON  
EXECUTIVE VICE  
PRESIDENT & DIRECTOR  
OF POWER OPERATIONS  
JOSEPH R. SCHMIEDER  
EXECUTIVE VICE  
PRESIDENT & CHIEF  
ENGINEER  
LEROY W. SINCLAIR  
SENIOR VICE PRESIDENT  
& CHIEF FINANCIAL  
OFFICER  
THOMAS R. FREY  
SENIOR VICE PRESIDENT  
& GENERAL COUNSEL

November 12, 1980  
IPN-80-105

Director of Nuclear Reactor Regulation  
U. S. Nuclear Regulatory Commission  
Washington, D. C. 20555

Attention: Mr. Steven A. Varga, Chief  
Operating Reactors Branch No. 1  
Division of Licensing

Subject: Indian Point 3 Nuclear Power Plant  
Docket No. 50-286  
Fire Protection Program Review

1980 NOV 17 PM 2 26  
US NRC  
DISTRIBUTION SERVICES  
BRANCH  
RECEIVED DISTRIBUTION  
SERVICES UNIT

Dear Sir:

In Attachment "A" of our letter to you of September 26, 1980 (IPN-80-87), the Authority provided a list of the fire dampers that were to be installed at the Indian Point 3 facility.

The Authority has completed its review of the dampers identified in this listing and has determined that certain of these dampers (i.e., dampers Nos. 26, 28, 33, 34 and 37) could not be installed because they are located in high radiation areas of the plant. The Authority's evaluation of the lack of these dampers on the fire protection provisions at the facility concluded that there would be no decrease in the overall effectiveness of the fire protection improvements being made at Indian Point since the dampers mentioned above are also located in areas of low fire loading.

This information was presented to Messrs. G. Harrison and L. Olshan of your staff in phone conversations on October 20, 1980. Mr. Harrison indicated that the reasoning for the deletion of the above mentioned dampers was acceptable.

Attachments "A" and "B" of our September 26, 1980 submittal have been revised to include these deletions. In addition an inconsistency regarding fire dampers No. 48 has been corrected. This damper was included in both Attachments "A" and "B".

A006  
5-11

F 8011180675

An evaluation of the fire dampers listed in Attachment "A" has been completed. This evaluation concluded that the installation of these dampers will not have an impact on the safe operation of the plant.

Very truly yours,

  
J. P. Bayne  
Senior Vice President  
Nuclear Generation

cc: Mr. T. Rebelowski  
Resident Inspector  
U. S. Nuclear Regulatory Commission  
P. O. Box 38  
Buchanan, New York 10511

Following is a tabulation of the fire dampers that are to be installed at the Indian Point Power Plant:

PRIMARY AUXILIARY BUILDING (Dwg. Nos. M-157, M-158 and M-159)

<u>DAMPER NO.</u>	<u>LOCATION</u>	<u>DESCRIPTION</u>
29	El. 15' - Zone 10A:	18"x6" duct through north wall into Zone 8A.
32	El. 34' - Zone 9:	55"x22" duct through north wall into Zone 5A.
38	El. 55' - Zone 5:	22"x12" duct through west wall into Zone 21A.
39	El. 55' - Zone 7:	18"x14" duct through west wall into Zone 6.
40	El. 55' - Zone 17A:	24"x24" duct through ceiling into Zone 27A.
41	El. 55' - Zone 17A:	10"x8" duct through east wall into Zone 20A.
49	El. 73' - Zone 27A:	12"x16" duct through south wall into Zone 24A.

CONTROL BUILDING (Dwg. Nos. M-155 and M-159)

<u>DAMPER NO.</u>	<u>LOCATION</u>	<u>DESCRIPTION</u>
1	El. 15' - Zone 14:	5'x3'-9" louvers in east wall into duct in hallway of Zone 34A.
4	El. 33' - Zone 11:	4'x5' opening through Zone 35A and louver to outside air inlet.
6	El. 15' - Zone 35A:	18"x20" duct through duct chase from Zone 34A.
2	El. 15' - Zone 14:	5'x3'-9" opening through south wall into Zone 34A.
12	El. 33' - Zone 12:	6"x11" duct through roof through Zone 11 to outside.
13	El. 33' - Zone 13:	6"x11" duct through roof through Zone 11 to outside.
9	El. 15' - Zone 14:	Transfer grille between Control Building and TG Building Zone 37A.
10	El. 33' - Zone 11:	Transfer grille between Control Building and TG Building Zone 43A.
11	El. 33' - Zone 11:	Transfer grille between Control Building and TG Building Zone 43A.
50	El. 33' - Zone 34A:	Transfer grille between Cable Spreading Room and Fan Room.

Fire dampers 9, 10, 11 and 50 were not included in the original or revised response to Question 7. Dampers nos. 9, 10, and 11 were listed in the revised response to Question 11, Section 11.g submitted by the Authority in Reference (3) of the January 22, 1980 letter (IPN-80-7). Fire damper 50 was just recently included.

Smoke dampers 51, 52, 53, 54, 55 and 56, indicated on Drawing M-159, are not used to separate fire zones. Their function is to isolate the areas prior to discharge of the CO<sub>2</sub> Fire Protection System.

Revised 11/5/80

ATTACHMENT B

Following is a tabulation of the fire dampers that are to be deleted from the list that was submitted to the NRC in the Response to Question No. 7. The rationale for each deletion is also provided.

FAN HOUSE

<u>DAMPER NO.</u>	<u>LOCATION</u>	<u>DESCRIPTION</u>
23	El. 72' - Zone 88A:	58"x72" duct through north wall. This damper is associated with a penetration of an exterior wall. As such it does not serve a fire protection function and therefore, it should be deleted.
25	El. 72" - Zone 88A:	42"x72" louver through ceiling near col. 3.3. The ceiling of Zone 88A is not a fire barrier, consequently, fire damper no. 25 is not required and should be deleted.
26	El. 72' - Zone 88A:	28"x26" duct through floor into Zone 59A. This damper could not be installed because it is located in high radiation area. The Authority's evaluation of the lack of this damper concluded that, since it is located in areas of low fire loading, the overall effectiveness of the fire protection improvements will not be degraded. Based on the above rationale, fire damper No. 26 has been deleted.
27	El. 72' - Zone 88A:	12" dia. duct through ceiling. This fire damper should be deleted for the same reasons as fire damper no. 25 above.
28	El. 72' - Zone 88A:	12" dia. duct through floor into Zone 59A. This damper has been deleted for the same reasons as fire damper no. 26.
24	El. 72' - Zone 88A:	58"x70" duct through south wall to outside alley and into the PAB. This duct runs outside through a distance of approximately 20 feet to a low fire loading area (Zone 17A) which is a corridor at elevation 55 of the PAB. Based on the fire loading characteristics of the zones involved, the probability of a fire that could be propagated through the approximately 20 feet of outside duct connecting these two zones is extremely remote. A fire damper in this case, therefore, is not warranted.

PRIMARY AUXILIARY BUILDING (PAB)

<u>DAMPER NO.</u>	<u>LOCATION</u>	<u>DESCRIPTION</u>
30	El. 15' - Zone 12A:	30"x30" duct through a three foot wide floor to ceiling entry slot to Zone 8A. Zone 12A in the

<u>DAMPER NO.</u>	<u>LOCATION</u>	<u>DESCRIPTION</u>
		area of the entry slot is an empty section of a corridor with low fire loading (513 BTU/Sq. Ft.). Zone 8A is a empty room with also low fire loading (632 BTU/Sq. Ft.). Based on the physical boundary and fire loading of the two zones a fire damper will not serve a fire protection function and it should be deleted. Furthermore the closing of the three foot opening with fire rated material, which would make a fire damper effective, is not warranted.
31	El. 34' - Zone 9:	6"x8" duct through south wall into Zone 6A. A field survey revealed that a penetration in this area does not exist, as a result this damper has been deleted.
33	El. 34' - Zone 68A:	(1) 6"x8" and (1) 14"x8" duct through north wall into Zone 9. This damper has been deleted for the same reasons as fire dampers no. 26.
34	El. 34' - Zone 68A:	6"x8" duct through east wall into Zone 6A. This damper has been deleted for the same reasons as fire damper no. 26.
35	El. 41' - Zone 1:	56"x60" duct through ceiling into Zone 17A. This duct passes through a 23'-3" x 32'-0" open grating which exists between Zones 1 and 17A. Based on the physical boundary and the fire loading of the zones involved, a damper would not serve a fire protection function. Therefore, fire damper no. 35 should be deleted.
36	El. 41' - Zone 1:	70"x52" duct into Zone 1A. As indicated in the Fire Hazards Analysis, there is no wall between Zone 1 and 1A. Therefore, fire damper no. 36 should be deleted.
37	El. 41' - Zone 2A:	28"x8" duct through north wall into Zone 58A. This damper has been deleted for the same reasons as fire damper no. 26.
42	El. 55' - Zone 17A:	14"x34" duct through north wall into Zone 7. This damper was deleted for the same reasons as damper no. 30; i.e., duct passes through a three foot wide floor to ceiling slot entry way. As in the case of damper no. 30, the fire loading of the zones involved is low.

<u>DAMPER NO.</u>	<u>LOCATION</u>	<u>DESCRIPTION</u>
43	El. 55' - Zone 17A:	40"x36" duct through roof to outside. This damper is deleted for the same reason as damper no. 24.
44	El. 55' - Zone 17A:	38"x36" duct through east wall into Zone 19A. A field survey revealed that the above duct does not penetrate a fire barrier. Consequently, damper no. 44 should be deleted.
45	El. 55' - Zone 17A:	18"x18" duct through east wall into Zone 20A. A field survey revealed that a duct of this size does not exist in this area. Consequently, damper no. 45 should be deleted.
46	El. 55' - Zone 18A:	24"x4" duct through north wall into Zone 17A. This damper was deleted for the same reasons as dampers no. 30 and 42; i.e., duct passes through a three foot wide floor to ceiling slot entry way. As in the preceding cases the fire loading of the zones involved is low.
47	El. 55' - Zone 19A:	(1) 28"x38" and (1) 12"x12" duct through east wall into Zone 18A. A field survey revealed that the 28"x38" duct does not penetrate a fire barrier in these zones. Therefore, a damper is not required. The 12"x12" damper should be deleted for the same reason as damper no. 46 above.
48	El. 55' - Zone 18A:	24"x38" duct through east wall into zone 17A. A field survey revealed that there is no duct penetrating a fire barrier in this area.

DIESEL GENERATOR BUILDING

<u>DAMPER NO.</u>	<u>LOCATION</u>	<u>DESCRIPTION</u>
-	El. 11' - Zone 102A:	14" dia. duct through east wall into Zone 36A. Damper was deleted because the duct does not exist.
14-22	Diesel Gen. Bldg.:	Outside louvers. These dampers are associated with louvers to outside. As such they do not serve a fire protection function and should be deleted.

ELECTRICAL TUNNELS

<u>DAMPER NO.</u>	<u>LOCATION</u>	<u>DESCRIPTION</u>
5	El. 15' - Zone 7A:	45"x60" louver to outside. Since this damper is associated with a louver to outside it does not serve a fire protection function and it should be deleted.

CONTROL BUILDING

<u>DAMPER NO.</u>	<u>LOCATION</u>	<u>DESCRIPTION</u>
7	El. 33' - Zone 11:	3'x12' louver in south wall to outside. This damper should be deleted for the same reason as damper no. 5.
8	El. 15' - Zone 14:	3'x12' louver in south wall to outside. This damper should be deleted for the same reason as damper nos. 5 and 7.

Revised 11/5/80