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Docket Number 50-346

License Number NPF-3

Serial Number 2298

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United States Nuclear Regulatory Commission
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Subject: Status of Progress in Resolving Issues Identified in Generic Letter 92-08, "Thermo-Lag 330-1 Fire Barriers," and Related NRC Requests for Additional Information (TAC No. 85542)

Ladies and Gentlemen:

The Nuclear Regulatory Commission (NRC) issued Generic Letter 92-08 on December 17, 1992 (Toledo Edison Log Number 3916). Toledo Edison (TE) responded, as applicable for the Davis-Besse Nuclear Power Station (DBNPS), on April 16, 1993 (TE Serial Number 2132). The NRC issued subsequent requests for additional information regarding Generic Letter 92-08 on December 21, 1993 (TE Log Number 4125), September 15, 1994 (TE Log Number 4398), and December 23, 1994 (TE Log Number 4464). Toledo Edison responded on February 11, 1994 (TE Serial Number 2201), December 8, 1994 (TE Serial Number 2258), and March 22, 1995 (TE Serial Number 2282), respectively. The December 8, 1994 and March 22, 1995 letters described TE's various plans and schedule to resolve the Thermo-Lag issue for the DBNPS, and stated that the NRC will be provided with an update in June, 1995. Accordingly, a comprehensive update of TE's current progress and plans regarding Thermo-Lag 330-1 fire barrier issues is provided in the enclosure.

Toledo Edison's April 16, 1993 letter discussed that, as an interim measure, TE has established hourly fire watch patrols as compensatory measures in the rooms where the Thermo-Lag 330-1 fire barrier system is used as a 1-hour or 3-hour fire barrier for the protection and separation of safe shutdown capability. These compensatory measures are in addition to the existing fire detection and suppression systems installed at the DBNPS, the onsite fire brigade, and the combustible material controls program, which together ensure the public's health and safety is being safeguarded.

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P PDR

Operating Companies:
Cleveland Electric Illuminating
Toledo Edison

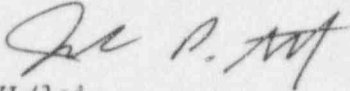
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Toledo Edison will continue to maintain these compensatory measures in place while it continues its progress on the resolution of the Thermo-Lag 330-1 issue.

Toledo Edison will provide another update of its progress and plans to address the Thermo-Lag 330-1 issue by December 15, 1995. If you have any questions, please contact Mr. W. T. O'Connor, Manager - Regulatory Affairs, at (419) 249-2366.

Very truly yours,



MKL/laj

Enclosure

cc: L. L. Gundrum, NRC NRR DB-1 Project Manager
J. B. Martin, Regional Administrator, NRC Region III
S. Stasek, NRC Region III, DB-1 Senior Resident Inspector
Utility Radiological Safety Board

STATUS OF PROGRESS IN RESOLVING ISSUES IDENTIFIED IN
GENERIC LETTER 92-08 AND RELATED REQUESTS FOR ADDITIONAL INFORMATION
FOR
DAVIS-BESSE NUCLEAR POWER STATION
UNIT NUMBER 1

I. 10 CFR 50 Appendix R Raceway Applications

A. Installed Quantities

As described in previous Toledo Edison (TE) correspondence, one hour fire barrier raceway configurations at the Davis-Besse Nuclear Power Station (DBNPS) include approximately 740 linear feet of conduits and approximately 1000 square feet of boxes (around condulets, flow transmitters, multiple conduits, etc.). Three hour fire barrier raceway configurations include approximately 170 linear feet of conduits and approximately 860 square feet of boxes. Thermo-Lag 330-1 is not utilized in cable tray fire barrier applications. There are 10 rooms in the plant which contain one hour or three hour fire barrier raceway configurations constructed of Thermo-Lag 330-1.

B. Installed Configuration

Plant walkdowns have been completed to verify Thermo-Lag 330-1 raceway installation details. Detailed drawings have been completed showing Thermo-Lag 330-1 layout and dimensions.

C. Industry Test Program

Toledo Edison is participating in the ongoing industry fire endurance test program coordinated by the Nuclear Energy Institute (NEI). The purpose of this test program is to address generic industry issues associated with the fire endurance capability. As part of the program, extensive fire endurance testing was conducted to establish performance of various baseline and upgraded fire barrier configurations. An Industry Application Guide (IAG) was developed to assist utilities in evaluating plant-specific installed barrier configurations versus the tested configurations. The IAG, issued by NEI in July, 1994, includes test data for testing performed by NEI, Texas Utilities Electric Company, and the Tennessee Valley Authority. The evaluation conducted for the DBNPS fire barriers using the IAG is described in Section I.D below.

NEI is considering additional fire endurance testing this summer and has solicited input from utilities for specific test configuration needs. Toledo Edison has requested that the testing include several DBNPS configurations for which the testing conducted to-date is not bounding: a large box configuration, a ganged conduit configuration using pre-shaped sections, various concrete wall interfaces, and box configurations constructed with panels with flattened v-ribs.

D. Industry Application Guide Evaluation

Toledo Edison completed its baseline IAG Evaluation in March, 1995. For evaluation purposes, the fire barrier systems were separated into segments. Segment boundaries were chosen considering the following characteristics: a change in barrier construction technique; a significant change in protected commodity or contents; a variation from applicable barrier installation requirements; a change in the type of barrier material; or a change in the orientation of the protected commodity or barrier which necessitated a change in barrier construction technique. Each segment was designated a unique identification number. The segments are listed in the Attachment.

Each segment was evaluated to determine whether it is bounded by an existing test, and if so, the corresponding level of fire resistance capability. It was determined that all barriers will require additional action in order to achieve compliance with the existing Appendix R. The various options to achieve compliance are described in Section I.E below.

The IAG Evaluation will be updated as necessary to reflect the results of ongoing work.

E. Approaches to Achieve Appendix R Compliance

Toledo Edison is pursuing multiple approaches to achieve Appendix R compliance. Toledo Edison has completed an evaluation of eliminating the need for fire barriers via either safe shutdown re-analysis or via the addition of operator actions, hence allowing either the removal of certain fire barriers or abandonment in-place. These approaches have been determined not to be feasible.

The selection of a particular approach or combination of approaches will likely vary room-by-room and barrier-by-barrier, depending primarily on technical feasibility, cost, schedule, and consideration of various peripheral issues described in Section IV below.

Some of the approaches would require additional testing, either individually or in concert with other utilities. The need for additional testing is an important consideration due to its high cost with no guarantee of successful results.

1. Removal and Replacement with Alternate Material

Toledo Edison is currently evaluating a preliminary proposal obtained from a vendor to remove existing Thermo-Lag 330-1 fire barriers and replace them with an alternate material shown by testing to meet Appendix R requirements. This approach is being implemented by several other plants. Limited additional testing may be required in order to implement this approach.

2. Upgrade

Toledo Edison is evaluating a preliminary proposal obtained from a vendor to overlay existing Thermo-Lag 330-1 fire barriers with an additional thickness of Thermo-Lag 330-1 and/or Thermo-Lag 770 material, and to make appropriate structural upgrades such as joint reinforcements and additional stress skin. Testing has been conducted for certain configurations by other utilities and by NEI, however additional testing would likely be required to implement this approach.

Toledo Edison is awaiting a similar preliminary proposal from another vendor to overlay existing Thermo-Lag 330-1 fire barriers with a different material.

3. Exemptions

Toledo Edison is contemplating submitting exemption requests for certain barriers or rooms based on an evaluation of the existing protection (detection, suppression, and barriers) against the specific hazards in the room. Such exemption requests would provide the information suggested in the NRC's September 15, 1994 letter. The exemption requests would provide a sound technical justification that clearly demonstrates that the fire protection defense-in-depth is appropriately maintained.

An example of a candidate for an exemption request is a 3 hour fire barrier which can be shown by existing testing to be qualified for at least one hour, installed in a room which lacks automatic suppression, but where automatic suppression is highly undesirable due to the presence of high voltage switchgear.

4. Other Approaches

Other approaches being contemplated on a barrier-by-barrier basis include: addition of a fire wall made of a material such as gypsum panels to completely enclose a raceway; rerouting or modifying circuits; and addition of automatic suppression systems.

II. 10 CFR 50 Appendix R Radiant Energy Shield Applications

A. Installed Quantities

As described in previous TE correspondence to the NRC, there are about 170 linear feet of radiant energy shields located in the containment and the containment annulus.

B. Installed Configuration

Plant walkdowns have been completed to verify Thermo-Lag 330-1 radiant energy shield installation details. Detailed drawings have been completed showing layout and dimensions.

C. Containment Annulus Exemption

A 10 CFR Part 50 Appendix R exemption request was previously submitted on May 18, 1990 (TE Serial Number 1809) which is based, in part, on the existence of radiant energy shields which separate redundant trains of safe shutdown circuits within the containment annulus. These shields are made in part of Thermo-Lag 330-1 fire barrier material. By letter dated February 24, 1993 (TE Serial Number 2118), TE notified the NRC of plans to submit additional information in support of the exemption request, based on the ongoing industry and NRC efforts regarding Thermo-Lag. By letter dated May 23, 1993 (TE Log Number 3965), the NRC notified TE that the review of the exemption request was being suspended pending submittal of the additional information.

D. Approaches to Achieve Appendix R Compliance

Section III.G.2 of Appendix R allows the option of installing a noncombustible radiant energy shield to separate redundant trains in containment. Based on Section 3.7.1 of Generic Letter 86-10, "Implementation of Fire Protection Requirements," dated April 24, 1986, Toledo Edison interpreted that any material with a 1/2-hour fire rating is capable of performing the required function of the radiant energy shield. However, as stated in NRC Information Notice 95-27, "NRC Review of Nuclear Energy Institute 'Thermo-Lag 330-1 Combustibility Evaluation Methodology Plant Screening Guide'", dated May 31, 1995, the NRC has taken a position that Thermo-Lag 330-1 has combustible characteristics similar to those of other nuclear power plant combustible materials, and that the NRC Staff will therefore not accept the use of Thermo-Lag materials where noncombustible materials are specified by NRC fire protection requirements.

Prior to the receipt of Information Notice 95-27, Toledo Edison's strategy of demonstrating compliance with respect to radiant energy shields, as described in its December 8, 1994 letter, was to show that the radiant energy shields are adequate based on extrapolation of the testing summarized in the Industry Application Guide. Accordingly, the radiant energy shields were separated into segments and included in the Industry Application Guide Evaluation described in Section I.D above. The radiant energy shield segments are included in the Attachment. The goal was to

demonstrate at least a 1/2-hour fire rating. Based on the baseline IAG Evaluation, further evaluation and analysis is required to demonstrate the required fire rating. Additional testing would likely be required.

In light of the NRC position described in Information Notice 95-27, the most likely options are to either replace the Thermo-Lag with an alternate material, or to complete the IAG Evaluation and submit an exemption request for both the containment and containment annulus applications. Both of these options are being evaluated by TE.

Toledo Edison is evaluating a preliminary proposal obtained from a vendor to remove existing Thermo-Lag 330-1 material from all radiant energy shields and replace them with a noncombustible alternate material shown by testing to meet Appendix R requirements.

For the containment annulus applications, information (on either the existing installation or on a replacement installation with an alternate material) will be submitted in support of the previously submitted exemption request described in Section II.C, to allow the NRC to resume processing of the request. A schedule is included in Section V below.

III. 10 CFR 50 Appendix R Structural Steel Applications

A. Installed Quantities

As described in previous correspondence, there are about 2200 square feet of Thermo-Lag 330-1 installed as fireproofing on structural steel located in 16 different rooms in the plant.

B. Installed Configurations

Plant walkdowns have been completed to verify installation details. Detailed drawings have been completed showing Thermo-Lag 330-1 fireproofed structural steel layout and dimensions.

C. Approaches to Achieve Appendix R Compliance

Toledo Edison's initial strategy of demonstrating compliance with respect to structural steel fireproofing, as described in its December 8, 1994 letter, was to show that structural steel fireproofing applications are adequate based on extrapolation of the testing summarized in the Industry Application Guide. Accordingly, the structural steel applications were separated into segments and included in the Industry Application Guide Evaluation described in Section I.D above. The structural steel segments are included in the Attachment. The goal was to demonstrate a 3 hour fire rating, taking into account the high failure temperature of the steel (over 1000°F). Based on the baseline IAG Evaluation, further evaluation and analysis is required to demonstrate the required fire rating.

If the above approach is not feasible, the most likely option would be either to conduct additional testing, replace the Thermo-Lag with an

alternate material, or submit an exemption request to the NRC. Each of these options are being evaluated.

Toledo Edison is evaluating a preliminary proposal obtained from a vendor to remove the existing Thermo-Lag 330-1 installed in structural steel applications and replace it with an alternate material shown by testing to meet Appendix R requirements.

IV. Peripheral Issues

Thermo-Lag 330-1 and fire protection continues to be an evolving issue. Listed below are discussions of several peripheral issues that may have a bearing on the specific approaches to be utilized.

A. Thermo-Lag 330-1 Materials

The December 23, 1994 NRC letter requested a description of the specific tests and analysis that will be performed to verify that the Thermo-Lag fire barrier materials that are currently installed at the DBNPS are representative of the materials that were used to address the technical issues associated with Thermo-Lag barriers and to construct fire endurance and ampacity derating test specimens. The letter further stated that the following material properties and attributes should be addressed: chemical composition; material thickness; material weight and density; the presence of voids, cracks, and delaminations; fire endurance capabilities; combustibility; flame spread rating; ampacity derating; and mechanical properties such as tensile strength, compressive strength, sheer strength, and flexural strength.

As stated in the March 22, 1995 TE response to the December 23, 1994 NRC letter, the issues raised will be factored into the decision-making process for resolving the Thermo-Lag issue. If the decision is made to retain Thermo-Lag for at least some applications, then a detailed plan and schedule for addressing the issues raised regarding material properties and attributes will be provided to the NRC.

The March 22, 1995 TE letter further stated that under the assumption that retention of Thermo-Lag in certain applications may be a viable option, TE is participating in a joint utility effort to confirm via creation of a generic data pool that there are no significant Thermo-Lag chemical composition variations. This joint utility effort, which is being coordinated by NEI, involves the comparison of samples submitted by individual utilities. A single laboratory will compare the samples using pyrolysis gas chromatography testing conducted under a standard test protocol, and the results compared to results of previous NEI and utility tests.

In March, 1995, TE submitted four Thermo-Lag 330-1 samples obtained from its warehouse stock to the laboratory selected by NEI, NUCON Incorporated of Columbus, Ohio; one sample each from a 1 hour and 3 hour panel section and a 1 hour and 3 hour pre-shaped conduit section. Toledo Edison is awaiting the results of the laboratory analyses.

B. Important Barrier Parameters

The December 23, 1994 NRC letter requested a description of the examinations and inspections that will be performed to obtain the important barrier parameters given in Section II of the December 21, 1993 NRC Request for Additional Information.

As stated in the March 22, 1995 TE response to the December 23, 1994 NRC letter, the issues raised will be factored into the decision-making process for resolving the Thermo-Lag issue. The number of examinations and inspections that would be performed would depend on the number of fire barrier applications for which Thermo-Lag 330-1 will be retained. If the decision is made to retain Thermo-Lag for at least some applications, then a detailed plan and schedule for addressing the issues raised will be provided to the NRC.

C. Ampacity Derating

As stated in the September 15, 1994 NRC letter (TE Log Number 4398), there are unresolved technical issues regarding ampacity derating, and it is the NRC's view that these issues can be resolved independently of the fire endurance issues. Toledo Edison will continue to follow the developments in resolution of this issue. However, based on plant-specific calculations which used ampacity derating factors provided by the Thermo-Lag 330-1 manufacturer, ampacity derating is not expected to be a concern for power cable circuits protected by Thermo-Lag 330-1 at DBNPS, even if significant adjustments to the ampacity derating factors previously provided by the vendor need to be applied.

Toledo Edison recognizes that ampacity derating is a consideration for whatever choice of approach is utilized to achieve Appendix R compliance, and that the plant-specific calculations will need to be revised.

D. Increased Hanger Loads

The ability of hangers to handle increased load due to installation of additional fire barrier material or replacement with a heavier fire barrier material, is an important consideration that will be factored into the decision-making process for resolving the Thermo-Lag issue.

E. Fire Modeling

Toledo Edison has closely followed the Electric Power Research Institute (EPRI) and joint utility efforts regarding the development and use of special fire modeling tools. Toledo Edison has also had discussions with a consultant regarding alternate fire modeling tools, and has attended NRC/utility meetings where the use of fire modeling has been discussed. Based on the available information to date, Toledo Edison would not anticipate submitting an exemption request that relies solely on fire modeling.

V. Schedule

Toledo Edison's current schedule for resolution of the Thermo-Lag 330-1 Appendix R fire barrier concerns, including raceway, radiant energy shield, and structural steel applications, is as follows:

- Establish by June, 1996, the approach to achieve Appendix R compliance.

In order to support this schedule date, specifications would be prepared, a formal bid process would be conducted, and conceptual designs prepared, as applicable for the specific option to be recommended. In addition, fire modeling would be completed, as applicable, to support submittal of exemption requests. Evaluations and analyses for radiant energy shield and structural steel applications would be completed. Recommendations for any additional testing or field inspections/examinations to be performed would also be developed.

- Submit by September, 1996, additional information to the NRC in support of the previously submitted exemption request for radiant energy shield applications in the containment annulus (described in Section II above), and submit any additional Appendix R exemption requests, as applicable, for NRC approval.
- Complete by December, 1996, plant modification design packages, as applicable.
- Field complete plant modifications, as applicable, by June, 1997, except for fire barriers (radiant energy shields) located in the containment or annulus, which would be field completed during the Eleventh Refueling Outage (11RFO), which is scheduled to end in March, 1998.

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Attachment

Thermo-Lag 330-1 Fire Barrier Segments

(19 pages follow)

----- LEGEND -----

"ID" = Unique Segment Identification Number
(WWX-YY.ZZ)
where WW = room number location
X = design fire rating in hours
YY = barrier sequential number
ZZ = segment sequential number

"SEG_TYPE" = Segment Type
where B = Box
BN = Box (Proximity Conduit)
BS = Boxed Support
FB = Flexi-Blanket
PS = Pre-Shaped
PSE = Pre-Shaped Elbow
PSEN = Pre-Shaped Elbow (Proximity Conduit)
PSN = Pre-Shape (Proximity Conduit)
PSS = Pre-Shaped Support
TG = Trowel Grade Fill

"BOX_SIZE" = Box Dimension (inches)

"RACEWAY" = Identification of raceway being protected

"SIZE" = Size of raceway being protected (inches)

*** Thermo-Lag 330-1 Fire Barrier Segments ***

BARRIER ID	ROOM	SEG_TYPE	BOX_SIZE	RACEWAY	SIZE
053-3-01.01	053	B	10X24X29	36058E	4
053-3-01.02	053	BS	5.5X6.75X10.5	36058E	4
053-3-01.03	053	PSN		36058E	4
053-3-01.04	053	BS	9.25X10X17	36058E	4
053-3-01.05	053	PS		36058E	4
053-3-01.06	053	B	13.5X24X39.5	36058E	4
053-3-01.07	053	PS		36058E	4
053-3-01.08	053	B	14X30.5X38	36058E	4
053-3-01.09	053	PS		36058E	4
053-3-01.10	053	B	6X8X11	36058E	4
053-3-01.11	053	PS		36058E	4
053-3-01.12	053	B	15.5X23.5X38.5	36058E	4
053-3-01.13	053	BS		36058E	4
053-3-01.14	053	PS		36058E	4
053-3-01.15	053	B	13X15.5X21	36058E	4
053-3-01.16	053	PSE		36058E	4
053-3-01.17	053	BS		36058E	4
053-3-01.18	053	PS		36058E	4
053-3-01.19	053	BS		36058E	4
053-3-01.20	053	PSS	4 DIAM.	36058E	4
053-3-01.21	053	PSS	4.25 DIAM.	36058E	4
053-3-01.22	053	PSS	4.25 DIAM.	36058E	4
053-3-01.23	053	PSS	4 DIAM.	36058E	4
053-3-01.24	053	BS		36058E	4
053-3-01.25	053	BS		36058E	4
053-3-01.26	053	PS		36058E	4
053-3-01.27	053	PSS	23.75 LENGTH	36058E	4
053-3-01.28	053	BS	4.25X13.5X14.75	36058E	4
053-3-01.29	053	PSS	23.75 LENGTH	36058E	4
053-3-01.30	053	PSN		36058E	4
053-3-01.31	053	BS	2.5X13X13	36058E	4
053-3-01.32	053	BS	4X4X18	36058E	4
053-3-01.33	053	BS	2.5X13X13	36058E	4
053-3-01.34	053	BS	4X4X18	36058E	4
053-3-01.35	053	BS	4.5X4.5X18.5	36058E	4
053-3-01.36	053	BS	4X14X36.5	36058E	4
053-3-01.37	053	PSN		36058E	4
053-3-01.38	053	PSN		36058E	4
053-3-01.39	053	B	5.5X7.75X8	36058E	4
053-3-01.40	053	PS		36058E	4
053-3-01.41	053	PS/TG	36 LENGTH	36058E	4
053-3-02.01	053	B	12X12X13	36004E	3
053-3-02.02	053	BS	4X5X41.5	36004E	3
053-3-02.03	053	PSS	6 LENGTH	36004E	3
053-3-02.04	053	B	4X8X8	36004E	3
053-3-02.05	053	BS	8X8X10	36004E	3
053-3-02.06	053	PSS	9.25 LENGTH	36004E	3
053-3-02.07	053	PS		36004E	3
053-3-02.08	053	BS	4.5X6.5X7	36004E	3

*** Thermo-Lag 330-1 Fire Barrier Segments ***

BARRIER ID	ROOM	SEG_TYPE	BOX_SIZE	RACEWAY	SIZE
053-3-02.09	053	BS	3.75X14X14	36004E	3
053-3-02.10	053	PS		36004E	3
053-3-02.11	053	PS		36004E	3
053-3-02.12	053	B	10X18.25X30.5	36004E	3
053-3-02.13	053	PS	23 LENGTH	36004E	3
053-3-02.14	053	PS	23 LENGTH	36004E	3
053-3-02.15	053	BS	8X13.5X24.5	36004E	3
053-3-02.16	053	BS	13.5X22X35.5	36004E	3
053-3-02.17	053	PS		36004E	3
053-3-02.18	053	PS		36004E	3
053-3-02.19	053	BS	5X8X27	36004E	3
053-3-02.20	053	PS	9 LENGTH	36004E	3
053-3-03.01	053	B	12X12X13	36005D	4
053-3-03.02	053	PSS	6 LENGTH	36005D	4
053-3-03.03	053	BS	5X13.5X41.5	36005D	4
053-3-03.04	053	PS		36005D	4
053-3-03.05	053	BS	4.5X6X14.5	36005D	4
053-3-03.06	053	BS	4.5X6.5X7	36005D	4
053-3-03.07	053	BS	3.75X14X14	36005D	4
053-3-03.08	053	BS	9X15.25X58	36005D	4
053-3-03.09	053	PS		36005D	4
053-3-03.10	053	PS		36005D	4
053-3-03.11	053	B	9X10.5X13.5	36005D	4
053-3-03.12	053	PS		36005D	4
053-3-03.13	053	PSS	11.25 LENGTH	36005D	4
053-3-03.14	053	PSS	11.25 LENGTH	36005D	4
053-3-03.15	053	PS		36005D	4
053-3-04.01	053	PS		36201D	4
053-3-04.02	053	PSS	9.25 LENGTH	36201D	4
053-3-04.03	053	PSS	9.25 LENGTH	36201D	4
053-3-04.04	053	BS	6.75X12.5X15	36201D	4
053-3-04.05	053	B	9.5X9.5X60	36201D	4
053-3-04.06	053	PS		36201D	4
053-3-04.07	053	B	11.25X12.5X14	36201D	4
053-3-04.08	053	BS	4X13X13	36201D	4
053-3-04.09	053	BS	5X5X17.5	36201D	4
053-3-04.10	053	PS		36201D	4
053-3-04.11	053	B	7.75X8X8	36201D	4
053-3-04.12	053	B	8X12.5X14	36201D	4
053-3-04.13	053	BS	9X10.5X10.5	36201D	4
053-3-04.14	053	PSS	9 LENGTH	36201D	4
053-3-04.15	053	PSS	11 LENGTH	36201D	4
053-3-04.16	053	PSS	11 LENGTH	36201D	4
053-3-04.17	053	BS	6.5X12X62	36201D	4
053-3-04.18	053	B	11X12.5X14	36201D	4
053-3-04.19	053	PSN		36201D	4
053-3-04.20	053	PSN		36201D	4
105-3-01.01	105	PS		18277A	3
105-3-01.02	105	PS		18277A	3

05/23/95

*** Thermo-Lag 330-1 Fire Barrier Segments ***

BARRIER ID	ROOM	SEG_TYPE	BOX_SIZE	RACEWAY	SIZE
105-3-01.03	105	PSE		18277A	3
105-3-01.04	105	PS		18277A	3
105-3-01.05	105	PS		18277A	3
105-3-01.06	105	PSE		18277A	3
105-3-01.07	105	PSE		18277A	3
105-3-01.08	105	PS		18277A	3
105-3-01.09	105	PSE		18277A	3
105-3-01.10	105	PS		18277A	3
105-3-01.11	105	PSE		18277A	3
105-3-01.12	105	PS		18277A	3
105-3-01.13	105	PS		18277A	3
105-3-01.14	105	PSE		18277A	3
105-3-01.15	105	PS		18277A	3
105-3-01.16	105	BS	4X6X10.5	18277A	3
105-3-01.17	105	PSN	36 LENGTH	18277A	3
105-3-01.18	105	BS	2.5X6.5X13	18277A	3
105-3-01.19	105	B	6.5X11.5X17.5	18277A	3
105-3-01.20	105	BS	5X8.5X10.75	18277A	3
105-3-01.21	105	BS	4.25X6X10.5	18277A	3
105-3-01.22	105	PSN	38.25 LENGTH	18277A	3
105-3-01.23	105	BS	2.5X6.5X13	18277A	3
105-3-01.24	105	BS	5.125X6.5X11	18277A	3
105-3-01.25	105	PS	38.25 LENGTH	18277A	3
105-3-01.26	105	BS	4.25X6.5X10.5	18277A	3
105-3-01.27	105	BS	2.5X6.5X13	18277A	3
105-3-01.28	105	B	10X10X16.25	18277A	3
105-3-01.29	105	BS	4.75X6.25X8	18277A	3
105-3-01.30	105	BS	3X8.75X11	18277A	3
105-3-01.31	105	B	8X8.5X14	18277A	3
105-3-01.32	105	PSN	36.25 LENGTH	18277A	3
105-3-01.33	105	BS	4.75X10.5X18.5	18277A	3
105-3-01.34	105	PSS	10.5 LENGTH	18277A	3
105-3-01.35	105	BS	14.5X18X27.5	18277A	3
105-3-01.36	105	PSN	7 LENGTH	18277A	3
105-3-01.37	105	BS	10X10X48	18277A	3
105-3-01.38	105	BS	7X7X16	18277A	3
105-3-01.39	105	BS	6X6X25	18277A	3
105-3-01.40	105	BN	5X18X18	18277A	3
105-3-01.41	105	PSN	4.5 LENGTH	18277A	3
105-3-01.42	105	PSN	4.5 LENGTH	18277A	3
105-3-01.43	105	PSN	12 LENGTH	18277A	3
105-3-01.44	105	PSEN		18277A	3
105-3-01.45	105	PSN	22 LENGTH	18277A	3
105-3-01.46	105	BS	7X7X13	18277A	3
105-3-01.47	105	BS	4X5.5X49	18277A	3
105-3-01.48	105	BS	2X8X10	18277A	3
105-3-01.49	105	B	7X7.5X42	18277A	3
105-3-01.50	105	B	6.5X9.5X10	18277A	3
105-3-01.51	105	PSN	2 LENGTH	18277A	3

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*** Thermo-Lag 330-1 Fire Barrier Segments ***

BARRIER ID	ROOM	SEG_TYPE	BOX_SIZE	RACEWAY	SIZE
105-3-01.52	105	BS	12X15.5X40	18277A	3
105-3-01.53	105	PSN	9.5 LENGTH	18277A	3
105-3-01.54	105	E	6.5X9.5X18	18277A	3
105-3-01.55	105	BS	10.5X12X38	18277A	3
105-3-01.56	105	BS	4X6X14.5	18277A	3
105-3-01.57	105	BS	4X6X14.5	18277A	3
105-3-01.58	105	PS	4 LENGTH	18277A	3
105-3-01.59	105	BS	11X14X42	18277A	3
105-3-01.60	105	PSN	12 LENGTH	18277A	3
105-3-01.61	105	PSN	12 LENGTH	18277A	3
105-3-01.62	105	PSN	12 LENGTH	18277A	3
105-3-01.63	105	B	7X7X14.5	18277A	3
105-3-01.64	105	BS	10X11X38	18277A	3
105-3-01.66	105	BS	7X16X16	18277A	3
105-3-01.67	105	PSS	40 LENGTH	18277A	3
105-3-01.68	105	PSS	40 LENGTH	18277A	3
105-3-01.69	105	PSN	15 LENGTH	18277A	3
105-3-01.70	105	PSN	15 LENGTH	18277A	3
105-3-01.71	105	PSEN		18277A	3
105-3-01.72	105	PSN	18 LENGTH	18277A	3
105-3-01.73	105	BS	5X5X10	18277A	3
105-3-01.74	105	PSN	7 LENGTH	18277A	3
105-3-01.75	105	B	12X12X18	18277A	3
105-3-01.76	105	PSN	13 LENGTH	18277A	3
105-3-02.01	105	BS	10X13X120	STEEL	
105-3-02.02	105	BS	4X4X4	STEEL	
105-3-02.03	105	BS	4X7X7	STEEL	
105-3-02.04	105	BS	5X7X7	STEEL	
105-3-02.05	105	BS	5X6X6	STEEL	
105-3-02.06	105	BS	6X8X10	STEEL	
105-3-02.07	105	BS	3X3X18	STEEL	
105-3-02.08	105	BS	5X8X14	STEEL	
105-3-02.09	105	BS	3X5X10	STEEL	
105-3-02.10	105	BS	3X5X10	STEEL	
105-3-02.11	105	BS	5X16X19	STEEL	
110A-3-01.01	110A	BS	6X13X19	STEEL	
110A-3-01.02	110A	BS	10X12X79	STEEL	
110A-3-01.03	110A	BS	4X4X4.5	STEEL	
110A-3-01.04	110A	BS	4X4X4.5	STEEL	
113A-3-01.01	113A	PS	6 DIAM.	18227A	3
113A-3-01.02	113A	PSE	6 DIAM.	18227A	3
113A-3-01.03	113A	BS	4.5X6X20.5	18227A	3
113A-3-01.04	113A	BS	3X12X12	18227A	3
113A-3-01.05	113A	BS	4.5X6X20.5	18227A	3
113A-3-01.06	113A	PSN	36 LENGTH	18227A	3
113A-3-01.07	113A	BS	3X12.5X13	18227A	3
113A-3-02.01	113A	BS	12X12X62	STEEL	
113A-3-02.02	113A	BS	3X5X21	STEEL	
113A-3-02.03	113A	BS	3X5X12	STEEL	

*** Thermo-Lag 330-1 Fire Barrier Segments ***

BARRIER ID	ROOM	SEG_TYPE	BOX_SIZE	RACEWAY	SIZE
113A-3-02.04	113A	BS	2X3.5X21	STEEL	
113A-3-02.05	113A	BS	2X5X21	STEEL	
113A-3-03.01	113A	BS	10X12X61	STEEL	
113A-3-03.02	113A	B	4X4X18	STEEL	
113A-3-03.03	113A	BS	3X5X10	STEEL	
113A-3-03.04	113A	B	6X6X18	STEEL	
113A-3-03.05	113A	B	4X4X18	STEEL	
113A-3-03.06	113A	B	4X4X18	STEEL	
114-3-01.01	114	B	11.5X12X21.5	36006B	2
114-3-01.02	114	PSE	SEE NR1E-1200BS1	36006B	2
114-3-01.03	114	B	15.5X23.5X72	36006B	2
114-3-01.04	114	B	17.5X23.5X24	36006B	2
114-3-01.05	114	PS	SEE NR1E-1200BS1	36006B	2
114-3-01.06	114	PS	8X12 ELIPTICAL	36006B	2
114-3-01.07	114	BS	3X6.5X13	36006B	2
114-3-01.08	114	BS	5X5.5X37	36006B	2
114-3-01.09	114	BS	3X6.5X13	36006B	2
114-3-01.10	114	BS	5X5.5X34	36006B	2
114-3-01.11	114	BS	3X6.5X13	36006B	2
114-3-01.12	114	BS	5X5.5X37	36006B	2
114-3-01.13	114	BS	3X6.5X13	36006B	2
114-3-01.14	114	BS	5X5.5X34	36006B	2
114-3-02.01	114	B	8X11.5X16	36006B	2
114-3-02.02	114	PSE		36008B	2
114-3-02.03	114	PS		36008B	2
114-3-02.04	114	B	9X11.5X16	36008B	2
114-3-03.01	114	PSE		36009B	4
114-3-03.02	114	PS		36009B	4
114-3-04.01	114	BS	10X12.5X39	STEEL	
114-3-04.02	114	BS	4X16.5X19	STEEL	
114-3-04.03	114	BS	13X15.5X23	STEEL	
127-.5-01.01	127	BS	3X12X12	P1P3B	
127-.5-01.02	127	B	40.5X41.75X42	P1P3B	
127-.5-01.03	127	B	14X42X42	P1P3B	
127-.5-02.01	127	BS	3X14X14	P2P5F	
127-.5-02.02	127	BS	5X14X14	P2P5F	
127-.5-02.03	127	BS	3X5X14	P2P5F	
127-.5-02.04	127	B	18X18X42	P2P5F	
127-.5-02.05	127	B	14X22X42	P2.5F	
127-.5-02.06	127	B	22.5X23X44	P2P5F	
127-.5-03.01	127	BS	2.5X11.5X11.5	P2C5G	
127-.5-03.02	127	B	39.5X39.5X42	P2C5G	
127-.5-03.03	127	B	13X43.5X.4	P2C5G	
217-.5-01.01	217	PS		39028C	3
217-.5-01.02	217	PS		39028C	3
217-.5-01.03	217	B	8X8X20	39028C	3
217-.5-01.04	217	PS		39028C	3
217-.5-02.01	217	PS		39029C	3
217-.5-02.02	217	PS		39029C	3

*** Thermo-Lag 330-1 Fire Barrier Segments ***

BARRIER ID	ROOM	SEG_TYPE	BOX_SIZE	RACEWAY	SIZE
217-.5-02.03	217	B	8X8X18	39029C	3
217-.5-02.04	217	BS	3X8X12	39029C	3
217-.5-02.05	217	PS/B	ELIPTICAL 10X8	39029C	3
217-.5-02.06	217	BS	3X8X12	39029C	3
217-.5-02.07	217	B	8X12X20	39029C	3
217-.5-02.08	217	PS	10 DIAM. (3M)	39029C	3
217-.5-03.01	217	B	7X14X42	39019C	3
217-.5-03.02	217	PS	4 LENGTH	39019C	3
217-.5-03.03	217	PS	5 DIAM. (3M)	39019C	3
217-.5-03.04	217	B	14X19X42	39019C	3
217-.5-04.01	217	B	7X14X42	39020C	3
217-.5-04.02	217	PS	4 LENGTH	39020C	3
217-.5-04.03	217	PS	5 DIAM. (3M)	39020C	3
225-3-01.01	225	BS	10X14X26.5	STEEL	
225-3-01.02	225	BS	10X14X117	STEEL	
225-3-01.03	225	BS	10X14X298	STEEL	
225-3-01.04	225	BS	10X14X54	STEEL	
225-3-01.05	225	BS	10X14X298	STEEL	
225-3-01.06	225	BS	16X16X100	STEEL	
225-3-01.07	225	BS	16X16X100	STEEL	
304-3-01.01	304	BS	16X17X189	STEEL	
304-3-01.02	304	BS	2X4X17	STEEL	
304-3-01.03	304	BS	2X4X7	STEEL	
304-3-01.04	304	BS	2X8X17	STEEL	
304-3-01.05	304	BS	4X4X7	STEEL	
304-3-01.06	304	BS	4X7X24	STEEL	
304-3-01.07	304	BS	4X6X7	STEEL	
304-3-01.08	304	PSN	9" LENGTH	STEEL	
304-3-01.09	304	BS	4X7X14	STEEL	
304-3-01.10	304	BS	4X7X14	STEEL	
304-3-01.11	304	BS	4X7X14	STEEL	
304-3-01.12	304	BS	4X6X9	STEEL	
304-3-01.13	304	BS	4X6X14	STEEL	
304-3-01.14	304	BS	4X9X9	STEEL	
304-3-01.15	304	BS	9X10X10	STEEL	
304-3-01.16	304	BS	4X6X7	STEEL	
304-3-01.17	304	BS	4X4X14	STEEL	
304-3-01.18	304	BS	6X12X21	STEEL	
304-3-01.19	304	BS	4.5X11X14	STEEL	
304-3-02.01	304	BS	18X18X201	STEEL	
304-3-02.02	304	BS	5X6X18	STEEL	
304-3-02.03	304	BS	5X6X18	STEEL	
304-3-02.04	304	BS	7X12X21	STEEL	
304-3-02.05	304	BS	4X4X10	STEEL	
304-3-02.06	304	BS	4X9X13	STEEL	
304-3-02.07	304	BS	5X10X13	STEEL	
304-3-02.08	304	BS	5X9X17	STEEL	
304-3-02.09	304	BS	4X5X8	STEEL	
304-3-02.10	304	BS	4X7X7	STEEL	

*** Thermo-Lag 330-1 Fire Barrier Segments ***

BARRIER ID	ROOM	SEG_TYPE	BOX_SIZE	RACEWAY	SIZE
304-3-02.11	304	BS	4X6X6	STEEL	
304-3-02.12	304	BS	3X6X26	STEEL	
304-3-02.13	304	BS	4X16X19	STEEL	
304-3-02.14	304	BS	6X11X16	STEEL	
304-3-02.15	304	BS	5X6X7	STEEL	
304-3-02.16	304	BS	5X5X6	STEEL	
304-3-02.17	304	BS	5X5X6	STEEL	
304-3-02.18	304	BS	5X6X7	STEEL	
304-3-02.19	304	BS	5X6X7	STEEL	
304-3-02.20	304	BS	6X17X23	STEEL	
304-3-02.21	304	BS	4X14X18	STEEL	
304-3-02.22	304	BS	6X17X17	STEEL	
313-1-01.01	313	B	5.5X6X17.5	37087A	1.5
313-1-01.02	313	B	5.5X6.5X12	37087A	1.5
313-1-01.03	313	PSE		37087A	1.5
313-1-01.04	313	PS		37087A	1.5
313-1-01.05	313	BS	3.5X8X22	37087A	1.5
313-1-01.06	313	PS		37087A	1.5
313-1-01.07	313	B	4X4X31.5	37087A	1.5
313-1-01.08	313	BS	3.5X8X22	37087A	1.5
313-1-01.09	313	B	4X4X49	37087A	1.5
313-1-01.10	313	B	4X4.25X20	37087A	1.5
313-1-01.11	313	B	4X4X5	37087A	1.5
313-1-01.12	313	BS	3.5X8X22	37087A	1.5
313-1-01.13	313	B	4X4X51	37087A	1.5
313-1-01.14	313	BS	3.5X8X22	37087A	1.5
313-1-01.15	313	PS		37087A	1.5
313-1-01.16	313	PSE		37087A	1.5
313-1-01.17	313	PS		37087A	1.5
313-1-01.18	313	PSE		37087A	1.5
313-1-01.19	313	PS		37087A	1.5
313-1-01.20	313	BS	3.25X7X25.75	37087A	1.5
313-1-01.21	313	PS		37087A	1.5
313-1-01.22	313	BS	3.25X7X23.5	37087A	1.5
313-1-01.23	313	PS		37087A	1.5
313-1-01.24	313	PSE		37087A	1.5
313-1-01.25	313	PS		37087A	1.5
313-1-01.26	313	B	4.25X6.25X8.5	37087A	1.5
313-1-01.27	313	B	5X6.25X10	37087A	1.5
313-1-01.28	313	PS		37087A	1.5
313-1-01.29	313	BS	2X12X12	37087A	1.5
313-1-01.30	313	PSN	9 LENGTH	37087A	1.5
313-1-01.31	313	PSN	9 LENGTH	37087A	1.5
313-1-01.32	313	BS	2X11X12	37087A	1.5
313-1-01.33	313	PSN	9 LENGTH	37087A	1.5
313-1-01.34	313	PSN	9 LENGTH	37087A	1.5
313-1-01.35	313	BS	2X11.5X11.5	37087A	1.5
313-1-01.36	313	PSN	9 LENGTH	37087A	1.5
313-1-01.37	313	PSN	9 LENGTH	37087A	1.5

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BARRIER ID	ROOM	SEG_TYPE	BOX_SIZE	RACEWAY	SIZE
313-1-01.38	313	BS	2X12X16	37087A	1.5
313-1-01.39	313	PSN	9 LENGTH	37087A	1.5
313-1-01.40	313	PSN	9 LENGTH	37087A	1.5
313-1-01.41	313	BN	2X2X3	37087A	1.5
313-1-01.42	313	BS	2X5.5X14	37087A	1.5
313-1-01.43	313	BN	2X4X6	37087A	1.5
313-1-01.44	313	PSN	9.5	37087A	1.5
313-1-01.45	313	PSN	9.5	37087A	1.5
313-1-01.46	313	BS	2X5.5X14	37087A	1.5
313-1-01.47	313	PSN	9.5	37087A	1.5
313-1-01.48	313	PSN	9.5	37087A	1.5
314-1-01.01	314	PS		18219A	3
314-1-01.02	314	PS	1.5 LENGTH	18219A	3
314-1-01.03	314	BS	5X5X30	18219A	3
314-1-01.04	314	PS	2.5 LENGTH	18219A	3
314-1-01.05	314	BS	2X10X10	18219A	3
314-1-01.06	314	BS	4X4X36	18219A	3
314-1-01.07	314	BS	2X10X10	18219A	3
314-1-01.08	314	BS	5X5X42	18219A	3
314-1-01.09	314	BS	5X12X12	18219A	3
314-1-01.10	314	BN	3X12X24	18219A	3
314-1-01.11	314	BS	3X6X38	18219A	3
314-1-01.12	314	BS	3X10X10	18219A	3
314-1-01.13	314	BS	3X3X13	18219A	3
314-1-02.01	314	B	6X14X26	PULL BOX	
314-1-02.02	314	B	5.5X18X30	PULL BOX	
314-1-02.03	314	BN	3X3X26	PULL BOX	
314-1-03.01	314	PS	32 LENGTH	46087A STUB-OUT	2
314-1-04.01	314	B	14.5X40X40.5	P1P3BX	
314-1-04.02	314	BN	7.5X9X29	P1P3BX	
314-1-05.01	314	PS	4 DIAM.	46097A	3
314-1-06.01	314	PS	3 DIAM.	46098A	3
314-1-07.01	314	B	7X9.5X58.5	1PGS01	
314-1-07.02	314	B	4.5X9.5X58.5	1PGS01	
314-1-08.01	314	B	7.5X9X29	1PGS02	
314-1-08.02	314	BN	3X6X9	1PGS02	
314-1-08.03	314	BN	5X6.5X10.5	1PGS02	
317-.5-01.01	317	B	21X40X40	P1P3BI	
317-.5-01.02	317	BN	4X4X9	P1P3BI	
317-.5-01.03	317	BN	3X4X9	P1P3BI	
317-.5-01.04	317	B	4X7X9	P1P3BI	
317-.5-01.05	317	PS	6 LENGTH	P1P3BI	
317-.5-01.06	317	PS		P1P3BI	
317-.5-02.01	317	PS		39028A	3
317-.5-02.02	317	BS	5X5X80	39028A	3
317-.5-02.03	317	BS	4X10X10	39028A	3
317-.5-02.04	317	BS	3X4X5	39028A	3
317-.5-02.05	317	B	8X1.5X28	39028A	3
317-.5-02.06	317	BS		39028A	3

*** Thermo-Lag 330-1 Fire Barrier Segments ***

BARRIER ID	ROOM	SEG_TYPE	BOX_SIZE	RACEWAY	SIZE
317-.5-02.07	317	BS	8X10X10	39028A	3
317-.5-03.01	317	PS		39029A	3
317-.5-04.01	317	B	7X8X12.5	LT-RC14-1	
317-.5-04.02	317	B	11X13X18	LT-RC14-1	
317-.5-04.03	317	B	8.5X12.5X23	LT-RC14-1	
317-.5-04.04	317	B	6.5X11X15	LT-RC14-1	
317-.5-05.01	317	B	7X8.5X20	39274A	.75
317-.5-05.02	317	B	4X7X13	39274A	.75
317-.5-05.03	317	B	3.5X6X9.5	39274A	.75
317-.5-05.04	317	B	4.5X7.5X46	39274A	.75
317-.5-05.05	317	B	5X13X24	39274A	.75
317-.5-05.06	317	B	3X13.5X24	39274A	.75
317-.5-05.07	317	B	5X13X23	39274A	.75
317-.5-05.08	317	B	3X3.5X23	39274A	.75
317-.5-05.09	317	B	4.5X7.5X24	39274A	.75
317-.5-05.10	317	B	4.5X6X16	39274A	.75
317-.5-06.01	317	PS		39019A	3
317-.5-06.02	317	PSE		39019A	3
317-.5-06.03	317	BS	5X5X14	39019A	3
317-.5-06.04	317	BS	7X8X13	39019A	3
317-.5-06.05	317	BS		39019A	3
317-.5-06.06	317	B	8X29X29	39019A	3
317-.5-06.07	317	BS		39019A	3
317-.5-06.08	317	PSN		39019A	3
317-.5-06.09	317	BS		39019A	3
317-.5-06.10	317	BS		39019A	3
317-.5-07.01	317	PS		39020A	3
317-.5-07.02	317	PSE		39020A	3
323-3-01.01	323	B/PS	7.5X8X13.5	46008C	4
323-3-01.02	323	B	9X9X42	46008C	4
323-3-01.03	323	PS		46008C	4
323-3-01.04	323	PSE		46008C	4
323-3-01.05	323	PS		46008C	4
323-3-01.06	323	PS		46008C	4
323-3-01.07	323	BS	6X6X17	46008C	4
323-3-01.08	323	BS	7X18X16	46008C	4
323-3-01.09	323	BS	6X6X12.5	46008C	4
323-3-01.10	323	BS	6.5X12.5X12.5	46008C	4
324-3-01.01	324	PS		36204A	2
324-3-01.02	324	B	6.5X6.5X21.25	36204A	2
324-3-01.03	324	PS		36204A	2
324-3-01.04	324	BS	3X7X9	36204A	2
324-3-01.05	324	PS		36204A	2
324-3-01.06	324	BS	3X5.5X9	36204A	2
324-3-01.07	324	PSE		36204A	2
324-3-01.08	324	PS		36204A	2
324-3-01.09	324	B	9.5X9.5X12	36204A	2
324-3-01.10	324	B	14.5X40.5X43.5	36204A	2
324-3-01.11	324	B	7X16X20	36204A	2

*** Thermo-Lag 330-1 Fire Barrier Segments ***

BARRIER ID	ROOM	SEG_TYPE	BOX_SIZE	RACEWAY	SIZE
324-3-01.12	324	BS	6X8X16.5	36204A	2
324-3-01.13	324	PS		36204A	2
324-3-01.14	324	BS	5X6X9	36204A	2
324-3-01.15	324	PS		36204A	2
325-3-01.01	325	N/A	N/A	STEEL	
328-1-01.01	328	BS	2X11X11.5	JB3722	
328-1-01.02	328	BS	4.5X4.5X119.5	JB3722	
328-1-01.03	328	BS	4.5X11.25X16.75	JB3722	
328-1-01.04	328	BS	4.5X5.5X56	JB3722	
328-1-01.05	328	B	7.75X8.5X24	JB3722	
328-1-01.06	328	BS	4.5X4.5X107.5	JB3722	
328-1-01.07	328	B	12X22.5X57.5	JB3722	
328-1-01.08	328	BS	1.75X11.5X17.5	JB3722	
328-1-01.09	328	PSN	26 LENGTH	JB3722	
328-1-01.10	328	PSN	18 LENGTH	JB3722	
328-1-01.11	328	B	9.5X12X31.5	JB3722	
328-1-02.01	328	PSE		37087A	1.5
328-1-02.02	328	BS	3X5X11.5	37087A	1.5
328-1-02.03	328	PS		37087A	1.5
328-1-02.04	328	BS	3.5X5X32	37087A	1.5
328-1-02.05	328	PS	6.25 LENGTH	37087A	1.5
328-1-02.06	328	PSE		37087A	1.5
328-1-02.07	328	PS		37087A	1.5
328-1-02.08	328	PSE		37087A	1.5
328-1-02.09	328	PS		37087A	1.5
328-1-02.10	328	B	5.25X5.25X15	37087A	1.5
328-1-02.11	328	BS	3.75X3.75X14.5	37087A	1.5
328-1-02.12	328	PS		37087A	1.5
328-1-02.13	328	BS	2.25X5.5X10	37087A	1.5
328-1-02.14	328	BS	3.5X11.75X23.75	37087A	1.5
328-1-03.01	328	PSE		37074A	1.5
328-1-03.02	328	PS		37074A	1.5
328-1-03.03	328	PSE		37074A	1.5
328-1-03.04	328	PS		37074A	1.5
328-1-03.05	328	PSE		37074A	1.5
328-1-03.06	328	PS		37074A	1.5
328-1-03.07	328	PSE		37074A	1.5
328-1-03.08	328	PS		37074A	1.5
328-1-03.09	328	B	4.5X7.5X10	37074A	1.5
328-1-03.10	328	PS		37074A	1.5
328-1-03.11	328	B	5X5X14.5	37074A	1.5
328-1-03.12	328	BS	4X4X8	37074A	1.5
328-1-03.13	328	PSS	28.75 LENGTH	37074A	1.5
328-1-03.14	328	BS	4X12X13	37074A	1.5
328-1-03.15	328	PSS	28.75 LENGTH	37074A	1.5
328-1-03.16	328	BS	5X7.5X8	37074A	1.5
328-1-04.01	328	PG		37074B	1.5
328-1-04.02	328	BS		37074B	1.5
328-1-04.03	328	PSS	29 LENGTH	37074B	1.5

*** Thermo-Lag 330-1 Fire Barrier Segments ***

BARRIER ID	ROOM	SEG_TYPE	BOX_SIZE	RACEWAY	SIZE
328-1-04.04	328	PSE		37074B	1.5
328-1-04.05	328	BS	5X6X7	37074B	1.5
328-1-04.06	328	PS		37074B	1.5
328-1-04.07	328	PS		37074B	1.5
328-1-04.08	328	B	6X6X8	37074B	1.5
328-1-04.09	328	PS		37074B	1.5
328-1-04.10	328	BS	2X12X12	37074B	1.5
328-1-04.11	328	BS	3X11X22	37074B	1.5
328-1-04.12	328	BS	2X12X12	37074B	1.5
328-1-04.13	328	PS		37074B	1.5
328-1-04.14	328	PS		37074B	1.5
328-1-04.15	328	BS	3X6.5X18	37074B	1.5
328-1-04.16	328	B	7.5X16.25X17.5	37074B	1.5
328-1-04.18	328	PSN	23.25 LENGTH	37074B	1.5
328-1-04.19	328	PSN	5 LENGTH	37074B	1.5
328-1-04.20	328	PSN	16.5 LENGTH	37074B	1.5
328-1-04.21	328	PS		37074B	1.5
328-1-06.01	328	PS		37074C	1.5
328-1-06.02	328	BS	4X4.5X7.5	37074C	1.5
328-1-06.03	328	B	5X5X10.5	37074C	1.5
328-1-07.01	328	PS		37074D	1.5
328-1-07.02	328	PSE		37074D	1.5
328-1-07.03	328	PS		37074D	1.5
328-1-07.04	328	BS	8.5X9.5X10	37074D	1.5
328-1-07.05	328	BS	5X8.5X24	37074D	1.5
328-1-07.06	328	PS		37074D	1.5
328-1-07.07	328	PSN	9" & 9" LENGTHS	37074D	1.5
328-1-07.08	328	PS		37074D	1.5
328-1-09.01	328	PS		37074E	.75
328-1-09.02	328	PSE		37074E	.75
328-1-09.03	328	BS	4.5X5X6	37074E	.75
328-1-09.04	328	PSN	5 LENGTH	37074E	.75
328-1-09.05	328	PS		37074E	.75
328-1-09.06	328	PS		37074E	.75
328-1-09.07	328	PS		37074E	.75
328-1-09.08	328	PSE		37074E	.75
328-1-09.09	328	BS	2X2.5X7.5	37074E	.75
328-1-09.10	328	B	4X6X8.5	37074E	.75
328-1-09.11	328	PS		37074E	.75
328-1-09.12	328	BS	4X5.75X13	37074E	.75
328-1-09.13	328	PSE		37074E	.75
328-1-09.14	328	PS		37074E	.75
328-1-09.15	328	PSE		37074E	.75
328-1-09.16	328	PS		37074E	.75
328-1-09.17	328	B	4.75X5.5X23	37074E	.75
328-1-09.18	328	B	3X3X14.5	37074E	.75
328-1-11.01	328	PS		37495C	1.5
328-1-11.02	328	PSE		37495C	1.5
328-1-11.03	328	PS		37495C	1.5

*** Thermo-Lag 330-1 Fire Barrier Segments ***

BARRIER ID	ROOM	SEG_TYPE	BOX_SIZE	RACEWAY	SIZE
328-1-11.08	328	PS	6 LENGTH	37495C	1.5
328-1-11.11	328	PS	6 LENGTH	37495C	1.5
328-1-11.12	328	PSE		37495C	1.5
328-1-11.13	328	PS		37495C	1.5
328-1-11.14	328	B	5.75X16X123.75	37495C	1.5
328-1-11.15	328	B	6X13X13	37495C	1.5
328-1-11.16	328	B	6.75X11.5X15.5	37495C	1.5
328-1-11.17	328	B	6X11.5X39.5	37495C	1.5
328-1-11.18	328	B	7X12.25X16	37495C	1.5
328-1-11.19	328	B	7.25X10.5X14	37495C	1.5
328-1-12.01	328	PSE		37495D	.75
328-1-12.02	328	PS	5 LENGTH	37495D	.75
328-1-13.01	328	PS		37493D	1.5
328-1-13.02	328	PS		37493D	1.5
328-1-13.03	328	PSE		37493D	1.5
328-1-13.04	328	PS		37493D	1.5
328-1-14.01	328	B	6X6.5X12	37493E	1.5
328-1-14.02	328	PS		37493E	1.5
328-1-14.03	328	BS	3.25X6.25X18.5	37493E	1.5
328-1-14.04	328	BS	5X6.5X8.25	37493E	1.5
328-1-14.05	328	BS	3.25X6.25X18.5	37493E	1.5
328-1-14.06	328	BS	3.25X6.25X18.5	37493E	1.5
328-1-14.07	328	PSE		37493E	1.5
328-1-14.08	328	PS		37493E	1.5
328-1-14.09	328	BS	3.25X5X70	37493E	1.5
328-1-14.10	328	BS	3.25X5X70	37493E	1.5
328-1-14.11	328	BS	3.25X6X15	37493E	1.5
328-1-14.12	328	BS	3.25X6X15	37493E	1.5
328-1-14.13	328	BS	6X9.5X10	37493E	1.5
328-1-14.14	328	BS	3X3X3	37493E	1.5
328-1-14.15	328	PS	8 LENGTH	37493E	1.5
328-1-14.16	328	BS	6X9.75X10	37493E	1.5
328-1-14.17	328	BS	3.25X3.25X64	37493E	1.5
328-1-14.18	328	PSE		37493E	1.5
328-1-14.19	328	PS		37493E	1.5
328-1-14.20	328	PSN	16 LENGTH	37493E	1.5
328-1-14.21	328	PSN	16 LENGTH	37493E	1.5
328-1-15.01	328	PS		37591A	1.5
328-1-15.02	328	B	4.25X4.25X9	37591A	1.5
328-1-15.03	328	PSE		37591A	1.5
328-1-15.04	328	PS		37591A	1.5
328-1-15.05	328	BS	6X6X92	37591A	1.5
328-1-15.06	328	BS	3.5X6.5X31.25	37591A	1.5
328-1-15.07	328	BS	6.5X25.25X27	37591A	1.5
328-1-15.08	328	PSS	28X2DIA.	37591A	1.5
328-1-15.09	328	BS	2.75X6X6.5	37591A	1.5
328-1-15.10	328	BS	2X2.5X28	37591A	1.5
328-1-15.11	328	BS	2X2.5X28	37591A	1.5
328-1-15.12	328	BS	3.25X3.5X12	37591A	1.5

*** Thermo-Lag 330-1 Fire Barrier Segments ***

BARRIER ID	ROOM	SEG_TYPE	BOX_SIZE	RACEWAY	SIZE
328-1-15.13	328	BS	3.25X3.5X12	37591A	1.5
328-1-15.14	328	BS	3.5X5.5X14.25	37591A	1.5
328-1-15.15	328	BS	3.5X6.5X31.25	37591A	1.5
328-1-15.16	328	BS	1.25X16X16	37591A	1.5
328-1-15.17	328	BS	6.75X6.75X38.75	37591A	1.5
328-1-15.18	328	BS	6.5X16X16	37591A	1.5
328-1-15.19	328	PSE		37591A	1.5
328-1-15.20	328	PS		37591A	1.5
328-1-15.21	328	PSE		37591A	1.5
328-1-15.22	328	PS	SEE COMMENTS	37591A	1.5
328-1-15.23	328	PS		37591A	1.5
328-1-15.24	328	PS		37591A	1.5
328-1-15.25	328	PS	6 LENGTH	37591A	1.5
328-1-15.26	328	PS	6 LENGTH	37591A	1.5
328-1-15.27	328	PSN	16 LENGTH	37591A	1.5
328-1-15.28	328	PSN	16 LENGTH	37591A	1.5
328-1-15.29	328	PSN	16 LENGTH	37591A	1.5
328-1-15.30	328	PSN	6 LENGTH	37591A	1.5
328-1-15.31	328	PSN	14 LENGTH	37591A	1.5
328-1-15.32	328	PSN	14 LENGTH	37591A	1.5
328-1-15.33	328	PSNE	10 LENGTH	37591A	1.5
328-1-15.34	328	PS	6 LENGTH	37591A	1.5
328-1-15.35	328	PS	6 LENGTH	37591A	1.5
328-1-15.36	328	PS	5.5 LENGTH	37591A	1.5
328-1-16.01	328	B	8.5X21X30	JB3721	
328-1-16.02	328	B	6X6.5X11	JB3721	
328-1-16.03	328	BS	3.5X4.75X31	JB3721	
328-1-16.04	328	BS	3.5X6.25X54	JB3721	
328-1-16.05	328	BS	3.5X6.25X54	JB3721	
328-1-16.06	328	BS	3.5X6.25X26.5	JB3721	
328-1-16.07	328	BS	3.5X6.25X26.5	JB3721	
328-1-16.08	328	PSN	9 LENGTH	JB3721	
328-1-16.09	328	PSN	9 LENGTH	JB3721	
328-1-16.10	328	B	13.75X19X26.5	JB3721	
328-1-17.01	328	PS		37499C	1.5
328-1-17.02	328	PSE		37499C	1.5
328-1-17.03	328	PSE		37499C	1.5
328-1-17.04	328	PS		37499C	1.5
328-1-17.05	328	BS	4.25X6X22.5	37499C	1.5
328-1-17.06	328	PS		37499C	1.5
328-1-17.07	328	B	4.75X5.25X9.75	37499C	1.5
328-1-17.08	328	PS	4.75 LENGTH	37499C	1.5
328-1-17.09	328	B	5.25X6.5X12	37499C	1.5
328-1-18.01	328	PS		37499B	1.5
328-1-18.02	328	PSE		37499B	1.5
328-1-18.03	328	PS	5 LENGTH	37499B	1.5
328-1-18.04	328	PS		37499B	1.5
328-1-18.05	328	BS	3.5X5X7.5	37499B	1.5
328-1-18.06	328	PSS	27 LENGTH	37499B	1.5

*** Thermo-Lag 330-1 Fire Barrier Segments ***

BARRIER ID	ROOM	SEG_TYPE	BOX_SIZE	RACEWAY	SIZE
328-1-18.07	328	PSE		37499B	1.5
328-1-18.08	328	PS		37499B	1.5
328-1-18.09	328	PS	ELLIPTICAL	37499B	1.5
328-1-19.01	328	PS		37469C	2
328-1-19.02	328	PS		37469C	2
328-1-19.03	328	PS		37469C	2
328-1-19.04	328	B	8X5X12	37469C	2
328-1-19.05	328	PS		37469C	2
328-1-19.06	328	BS	4X4.5X16	37469C	2
328-1-19.07	328	B	5.5X5.5X12	37469C	2
328-1-19.08	328	PS		37469C	2
328-1-19.09	328	BS	3.5X5X5	37469C	2
328-1-19.10	328	BS	3.5X3.5X10.5	37469C	2
328-1-20.01	328	PS		37047C	1.5
328-1-20.02	328	PSE		37047C	1.5
328-1-20.03	328	BS	5.75X9X25	37047C	1.5
328-1-20.04	328	PS		37047C	1.5
328-1-20.05	328	BS/PS	4.25X8.5X13.5	37047C	1.5
328-1-20.06	328	BS	5.75X8.5X14	37047C	1.5
328-1-20.07	328	B	4.5X6X8.5	37047C	1.5
328-1-20.08	328	PS		37047C	1.5
328-1-21.01	328	PSE		37047B	1
328-1-21.02	328	PS		37047B	1
328-1-21.03	328	PSE		37047B	1
328-1-21.04	328	B	5.25X5.5X8.25	37047B	1
328-1-21.05	328	B	5.25X8.25X13	37047B	1
328-1-21.06	328	PS		37047B	1
328-1-21.08	328	PSE		37047B	1
328-1-21.09	328	PS		37047B	1
328-1-21.10	328	B	3.5X6X9	37047B	1
328-1-21.11	328	PS		37047B	1
328-1-21.12	328	PS		37047B	1
328-1-21.13	328	PS		37047B	1
328-1-23.01	328	PS		37590A	2
328-1-23.02	328	PSE		37590A	2
328-1-23.04	328	PS	3.5 DIAM/6.25 L	37590A	2
328-1-23.05	328	PS		37590A	2
328-1-23.06	328	BS	6X7.75X13.5	37590A	2
328-1-23.07	328	BS	2.25X11.5X37	37590A	2
328-1-23.08	328	BS	3.25X8.75X11.5	37590A	2
328-1-23.09	328	PSE		37590A	2
328-1-23.10	328	PS	5 LENGTH	37590A	2
328-1-23.11	328	B	5X5.5X9	37590A	2
328-1-23.12	328	PS		37590A	2
328-1-23.13	328	BS	2.5X3.5X11	37590A	2
328-1-23.14	328	BS	2.5X5.25X19	37590A	2
328-1-23.15	328	BS	5.5X5.75X10.75	37590A	2
328-1-23.16	328	BS	2.5X3.5X10	37590A	2
328-1-23.17	328	PS	ELLIPTICAL	37590A	2

*** Thermo-Lag 330-1 Fire Barrier Segments ***

BARRIER ID	ROOM	SEG_TYPE	BOX_SIZE	RACEWAY	SIZE
328-1-23.18	328	PSE	ELLIPTICAL	37590A	2
328-1-23.19	328	PS	PS	37590A	2
328-1-23.20	328	BS	4X6.5X14.5	37590A	2
328-1-23.21	328	PS		37590A	2
328-1-23.22	328	BS	4X6.5X12	37590A	2
328-1-23.23	328	PS		37590A	2
328-1-23.24	328	BS/PS	3.25X6.5X14.5	37590A	2
328-1-23.25	328	PSE		37590A	2
328-1-23.26	328	PS		37590A	2
328-1-23.27	328	PSN	18 LENGTH	37590A	2
328-1-23.28	328	PSE		37590A	2
328-1-23.29	328	PSN	12 LENGTH	37590A	2
328-1-23.30	328	PSN	19 LENGTH	37590A	2
328-1-23.31	328	PSN	7.25 LENGTH	37590A	2
328-1-24.01	328	BS	3.5X15X15	JB3715	
328-1-24.02	328	BS	5X5X14	JB3715	
328-1-24.03	328	B	16X19X20	JB3715	
328-1-24.04	328	B	16X17X51.5	JB3715	
328-1-25.01	328	B	11.75X15.25X59.5	JT3718	
328-1-25.02	328	B	15X18.5X20	JT3718	
328-1-25.03	328	BS	5X5X11.5	JT3718	
328-1-25.04	328	BS	8X16.75X16.75	JT3718	
328-1-26.01	328	PS		36110C	2
328-1-26.02	328	PSE		36110C	2
328-1-26.03	328	PS		36110C	2
328-1-26.04	328	BS	5.25X6X9.5	36110C	2
328-1-26.05	328	B	5.5X5.5X35	36110C	2
328-1-27.01	328	B	4.5X8.5X62	37448A	1
328-1-27.02	328	PSE		37448A	1
328-1-27.03	328	BS	3.5X6X9.25	37448A	1
328-1-27.04	328	PS		37448A	1
328-1-27.05	328	B	4.5X4.5X8	37448A	1
328-1-27.06	328	PS		37448A	1
328-1-27.07	328	BS	5.5X6X7.75	37448A	1
328-1-27.08	328	PSE		37448A	1
328-1-27.09	328	PS		37448A	1
328-1-27.10	328	BS	3.5X4.75X7.75	37448A	1
328-1-27.11	328	B	3.75X4.25X9.5	37448A	1
328-1-27.12	328	B	2.5X3.25X5	37448A	1
328-1-27.13	328	B	6.5X6.75X8.5	37448A	1
328-1-28.01	328	PS		37073A	1.5
328-1-28.02	328	PSE		37073A	1.5
328-1-28.03	328	PS		37073A	1.5
328-1-28.04	328	BS	3.25X3.25X7.25	37073A	1.5
328-1-28.05	328	BS	3.25X3.25X7.25	37073A	1.5
328-1-28.06	328	PS		37073A	1.5
328-1-28.07	328	B	5.5X8X20	37073A	1.5
328-1-28.08	328	PSE		37073A	1.5
328-1-29.01	328	PS		37073B	1.5

*** Thermo-Lag 330-1 Fire Barrier Segments ***

BARRIER ID	ROOM	SEG_TYPE	BOX_SIZE	RACEWAY	SIZE
328-1-29.02	328	PSE		37073B	1.5
328-1-29.03	328	PS		37073B	1.5
328-1-29.04	328	BS	3X5.25X7.25	37073B	1.5
328-1-29.05	328	PS		37073B	1.5
328-1-29.06	328	B	9X14X15	37073B	1.5
328-1-29.07	328	BS	3.25X5X13	37073B	1.5
328-1-29.08	328	BS	2.25X3X11.5	37073B	1.5
328-1-29.09	328	BS	4X8.25X11	37073B	1.5
328-1-30.01	328	PS		37073C	1.5
328-1-30.02	328	PS		37073C	1.5
328-1-30.03	328	BS	2.75X13X21.75	37073C	1.5
328-1-30.04	328	BS	4.5X8.25X13.25	37073C	1.5
328-1-30.05	328	B	5X5.25X13.5	37073C	1.5
328-1-30.06	328	PS		37073C	1.5
328-1-30.07	328	BS	5X7.75X16	37073C	1.5
328-1-30.08	328	PS		37073C	1.5
328-1-30.09	328	PS		37073C	1.5
328-1-30.10	328	PSE		37073C	1.5
328-1-30.11	328	PS		37073C	1.5
328-1-30.12	328	PSE		37073C	1.5
328-1-30.13	328	PS		37073C	1.5
328-1-30.14	328	BS	3.5X7X8	37073C	1.5
328-1-30.15	328	PS	11 LENGTH	37073C	1.5
328-1-30.16	328	PS		37073C	1.5
328-1-31.01	328	PS		37073D	1.5
328-1-32.01	328	PS		37073E	.75
328-1-32.02	328	BS	3.75X7X7.5	37073E	.75
328-1-32.03	328	PSE		37073E	.75
328-1-32.04	328	BS	1.75X8X9.75	37073E	.75
328-1-32.05	328	B	3X5.75X21.5	37073E	.75
328-1-32.06	328	BS	3X5X7.25	37073E	.75
328-1-32.07	328	PS		37073E	.75
328-1-32.08	328	B	5.5X5.5X8.5	37073E	.75
328-1-32.09	328	PS		37073E	.75
328-1-32.10	328	BS	4X4.5X14	37073E	.75
328-1-32.11	328	BS	3.25X4.75X14	37073E	.75
328-1-32.12	328	BS	3X3.75X10	37073E	.75
328-1-32.13	328	TG	3X7X9	37073E	.75
328-1-32.14	328	BS	3X3.25X4	37073E	.75
328-1-32.15	328	PSE		37073E	.75
328-1-32.16	328	PS		37073E	.75
328-1-32.17	328	BS	3.25X3.5X8	37073E	.75
328-1-32.18	328	BS	5X5X14.5	37073E	.75
328-1-32.19	328	PS		37073E	.75
328-1-32.20	328	PS		37073E	.75
328-1-32.21	328	PSN	18 LENGTH	37073E	.75
328-1-32.22	328	PSE		37073E	.75
328-1-32.23	328	PS		37073E	.75
328-1-32.24	328	BS	3X5X12	37073E	.75

*** Thermo-Lag 330-1 Fire Barrier Segments ***

BARRIER ID	ROOM	SEG_TYPE	BOX_SIZE	RACEWAY	SIZE
328-1-32.25	328	BS	2X9.5X13.75	37073E	.75
328-1-32.26	328	PSN	3 LENGTH	37073E	.75
328-1-32.27	328	PS		37073E	.75
328-1-34.01	328	PS		37440A	.75
328-1-34.02	328	PSE		37440A	.75
328-1-34.03	328	PS		37440A	.75
328-1-34.04	328	BS	2.5X12X12	37440A	.75
328-1-34.05	328	BS	3.25X7.5X17	37440A	.75
328-1-34.06	328	BS	3.5X9.5X14	37440A	.75
328-1-34.07	328	BS	3.25X5X65.5	37440A	.75
328-1-34.08	328	BS	4X9.5X9.5	37440A	.75
328-1-34.09	328	BS	8X11X16	37440A	.75
328-1-34.10	328	BS	3.25X7.5X17	37440A	.75
328-1-34.11	328	BS	2.75X12X12	37440A	.75
328-1-34.12	328	BS	3.25X5X18	37440A	.75
328-1-34.13	328	BS	3.5X8.75X13.25	37440A	.75
328-1-34.14	328	BS	3.5X5X71.25	37440A	.75
328-1-34.15	328	BS	8X11X16	37440A	.75
328-1-34.16	328	BS	7X4X6	37440A	.75
328-1-34.17	328	PSS	79 LENGTH	37440A	.75
328-1-34.18	328	PS		37440A	.75
328-1-34.19	328	PSE		37440A	.75
328-1-34.20	328	BS	3.75X5X9.5	37440A	.75
328-1-34.21	328	BS	1.75X8.75X14	37440A	.75
328-1-34.22	328	PS		37440A	.75
328-1-34.23	328	FB	6 LENGTH	37440A	.75
328-1-34.24	328	PS		37440A	.75
328-1-34.25	328	FB	6 LENGTH	37440A	.75
328-1-34.26	328	PSN	13 LENGTH	37440A	.75
328-1-34.27	328	PSN	18 LENGTH	37440A	.75
328-1-34.28	328	PSN	6 LENGTH	37440A	.75
328-1-34.29	328	PSN	20.75 LENGTH	37440A	.75
328-1-34.30	328	PSN	18 LENGTH	37440A	.75
328-1-36.01	328	N/A	SEE COMMENTS	37444A	1
328-1-37.01	328	PS		37481A	2
328-1-37.02	328	BS	3.5X7X14	37481A	2
328-1-37.03	328	PS		37481A	2
328-1-37.04	328	BS	4X7X14	37481A	2
328-1-37.05	328	PSE		37481A	2
328-1-37.07	328	PS		37481A	2
328-1-37.09	328	PSE		37481A	2
328-1-37.10	328	PS		37481A	2
328-1-37.11	328	PSE		37481A	2
328-1-38.01	328	PSE		36010C	2
328-1-38.02	328	PS		36010C	2
328-1-38.03	328	PSE		36010C	2
328-1-38.04	328	BS	4X6X10	36010C	2
328-1-38.05	328	PS		36010C	2
328-1-38.06	328	BS	3.25X3.25X13.5	36010C	2

*** Thermo-Lag 330-1 Fire Barrier Segments ***

BARRIER ID	ROOM	SEG_TYPE	BOX_SIZE	RACEWAY	SIZE
328-1-38.07	328	BS	6X13.5X15	36010C	2
328-1-38.08	328	PS		36010C	2
328-1-38.09	328	BS	3.25X3.25X13.5	36010C	2
328-1-38.10	328	BS	3.25X3.25X13.5	36010C	2
328-1-38.11	328	BS	3.25X3.25X14	36010C	2
328-1-38.12	328	B	5X13.25X14	36010C	2
328-1-38.13	328	PS		36010C	2
328-1-38.14	328	BS	4X4.25X4.25	36010C	2
328-1-38.15	328	PSE		36010C	2
328-1-38.16	328	PS		36010C	2
328-1-38.17	328	BS	3.75X6X13.5	36010C	2
328-1-38.18	328	PSE		36010C	2
328-1-38.19	328	PS		36010C	2
328-1-38.20	328	BS	3.25X6.5X7.25	36010C	2
328-1-38.21	328	PS		36010C	2
328-1-38.22	328	B	5.25X5.25X26	36010C	2
328-1-38.23	328	PS		36010C	2
328-3-05.01	328	BS	8X13X25	FIS1422D	
328-3-05.02	328	B	3X12.5X19	FIS1422D	
328-3-05.03	328	B	8X12.5X13	FIS1422D	
328-3-05.04	328	PS		FIS1422D	
328-3-08.01	328	BS	7X8X8	FIS1427D	
328-3-08.02	328	BS	7.25X11.5X12	FIS1427D	
328-3-08.03	328	BS	7.5X7.75X10.75	FIS1427D	
328-3-08.04	328	B	11.5X14.5X15.5	FIS1427D	
328-3-08.05	328	BS	4.5X7.5X7.5	FIS1427D	
328-3-08.06	328	BS	6.5X7.5X17.5	FIS1427D	
328-3-08.07	328	PSN	9 LENGTH	FIS1427D	
328-3-08.08	328	PS	10.75 LENGTH	FIS1427D	
328-3-08.09	328	BS	3X3.25X12	FIS1427D	
328-3-08.10	328	B	10X11.5X12	FIS1427D	
328-3-10.01	328	PSN	8 LENGTH	FIS1432D	
328-3-10.02	328	BS	2.75X7X36.5	FIS1432D	
328-3-10.03	328	BS	2X12.75X24.5	FIS1432D	
328-3-10.04	328	BS	7X7.75X11.5	FIS1432D	
328-3-10.05	328	B	11.75X12.75X18	FIS1432D	
328-3-10.06	328	B	9X14X18	FIS1432D	
328-3-10.08	328	BS	8X12X17.5	FIS1432D	
328-3-10.09	328	B	3X3X11.75	FIS1432D	
328-3-22.01	328	BS	7X9.5X17	FIS1427C	
328-3-22.02	328	BS	7.25X7.75X14.75	FIS1427C	
328-3-22.03	328	BS	4.75X5.25X36	FIS1427C	
328-3-22.04	328	BS	5.75X13.5X21.25	FIS1427C	
328-3-22.05	328	BS	10X10.5X24	FIS1427C	
328-3-22.06	328	BS	6X7.5X7.75	FIS1427C	
328-3-22.07	328	B	5.25X12X15.75	FIS1427C	
328-3-22.08	328	B	7.5X7.75X10.75	FIS1427C	
328-3-22.09	328	B	6.5X8.75X10.5	FIS1427C	
328-3-22.10	328	PS		FIS1427C	

*** Thermo-Lag 330-1 Fire Barrier Segments ***

BARRIER ID	ROOM	SEG_TYPE	BOX_SIZE	RACEWAY	SIZE
328-3-33.01	328	B	2.5X3X12	FIS1432C	
328-3-33.02	328	B	7X8X12.5	FIS1432C	
328-3-33.03	328	B	2.5X3X12	FIS1432C	
328-3-33.04	328	B	12X12.5X20	FIS1432C	
328-3-33.05	328	B	7.25X12.5X16	FIS1432C	
328-3-33.06	328	B	9X13X15	FIS1432C	
328-3-33.07	328	PSN	11 LENGTH	FIS1432C	
328-3-35.01	328	B	8X11X12	FIS1422C	
328-3-35.02	328	B	3X3X11	FIS1422C	
328-3-35.03	328	B	7X12X23.5	FIS1422C	
328-3-35.04	328	B	3X3X11	FIS1422C	
328-3-35.05	328	B	3X5X8.5	FIS1422C	
328-3-35.06	328	B	2.5X3X11	FIS1422C	
328-3-35.07	328	PS	20 LENGTH	FIS1422C	
331-3-01.01	331	B	17.5X52X65	FD-1126	
331-3-01.02	331	B	2.5X4.5X60	FD-1126	
331-3-01.03	331	B	2.5X2.5X2.5	FD-1126	
400-3-01.01	400	BS	N/A	STEEL	
401-3-01.01	401	BS	N/A	STEEL	
404-3-01.01	404	BS	N/A	STEEL	
410-.5-01.01	410	B	21X39X42	P3P4CI	
410-.5-01.02	410	B	5X5.5X10.5	P3P4CI	
410-.5-02.01	410	PS		39019A	3
410-.5-03.01	410	PS		39020A	3
427-1-01.01	427	B	14.75X43.25X46	P3P4CX	
427-1-01.02	427	B	5.25X16.25	46071C	3
427-1-01.03	427	BS	2.25X14X27	46071C	3
427-1-01.04	427	BS	4.5X8.25X17.5	46071C	3
427-1-01.05	427	FB		46071B	3
427-1-01.06	427	FB		46069B	3
427-1-01.07	427	FB		46070B	3
427-1-01.08	427	B	17X22X24.5	JB4670	
428-3-01.01	428	B	5X22X51	STEEL	
431-3-01.01	431	B	8X31X31.5	FD-1178	
431-3-01.02	431	B	12.5X35X35	FD-1178	
504-3-01.01	504	B	6X14X32	FD-1024	
504-3-01.02	504	B	6X10X15	FD-1024	
507-3-01.01	507	B	4X13.75X19	FD-1023	
507-3-01.02	507	B	10.5X14X29	FD-1023	
509-3-01.01	509	B	2.5X24X24	FD-1022	
509-3-01.02	509	B	4X10X16.5	FD-1022	