

SOUTH CAROLINA ELECTRIC AND GAS COMPANY

VIRGIL C. SUMMER NUCLEAR STATION

NUCLEAR OPERATIONS

NON NUCLEAR OPERATIONS

COPY No. 607

GENERAL TEST PROCEDURE

GTP-305

INSERVICE INSPECTION FOR COMPONENT SUPPORTS

REVISION 2

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SAFETY RELATED

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ATTACHMENTS

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1.0 PURPOSE

- 1.1 The purpose of this procedure is to develop an Inservice Inspection Program for examination of component supports.
- 1.2 The examination program recognizes the examination requirements of ASME Code, Section XI, as directed by 10 CFR50.55(a)g and the examination and testing requirements of the Virgil C. Summer Nuclear Station Technical Specifications. Specific testing requirements for hydraulic and mechanical snubbers is accomplished by the 400 Series of Surveillance Test Procedures.

NOTE: ASME Code, Section XI, shall not supercede the requirement of any technical specification. Only where technical specifications are less limiting shall the Code requirement take precedence.

2.0 REFERENCES AND GLOSSARY

2.1 References

- 2.1.1 SAP-145, Administrative Procedure for Inservice Inspection
- 2.1.2 V.C. Summer Technical Specifications
- 2.1.3 ASME Code, Section XI, 1977 Edition, Summer 1978 Addenda
- 2.1.4 403 Series of Surveillance Test Procedures
- 2.1.5 Thermal Expansion Testing Program
- 2.1.6 SAP-139, Development of Safety and Non-Safety Related Procedures
- 2.1.7 GTP-303, Inservice Inspection Non-Destruction Examination.
- 2.1.8 SAP-304, ASME Code, Section XI, Repair Program
- 2.1.9 NRC Bulletin IEB 81-01

2.2 Glossary

2.2.1 Definitions

NOTE: Terms used throughout this procedure are defined in References 2.1.1 and 2.1.4. The following are provided for clarification.

- A. Component Supports - For this procedure shall be those metal supports that are designed to transmit loads from the component and piping to the load carrying building and/or foundation structures. It also encompasses those structural elements relied upon to support the weight of or provide structural stability.
- B. Code - Shall mean ASME Code, Section XI, 1977 Edition, Summer 1978 Addenda, unless otherwise specified.
- C. Code Class - Components classified in accordance with ASME Code, Section III.
- D. Commercial Service - The date of placement of the power unit into commercial service as defined by the regulation of the Federal Power Commission Chapter 1, Title 18, Code of Federal Regulations 101, paragraph 9.0.
- E. Examination - Denotes the performance of all required visual observation and performance testing.
- F. Replacement - As used in this procedure, includes spare and renewal component supports or parts of a component support.
- G. Repair - Welding Activities, including initial and surface finishing processes, required to return an item to a condition acceptable to the Code.
- H. Rework - Replacement and/or other non-welding required to return an item to a condition acceptable to the Code.

- I. Representative Sample - Shall include supports from the various configurations of operating environments and range of size and capacity of supports.
- J. Test - As used in this procedure, refers to functional tests of hydraulic and mechanical snubbers.
- K. Associate Manager, Regulatory Compliance - That individual designated by the Director, V. C. Summer Nuclear Station, to act as liaison for SCE&G/NO with the USNRC.

2.2.2 Abbreviations

- A. ANII - Authorized Nuclear Inservice Inspector
- B. ISI - Inservice Inspection
- C. LCO - Limiting Conditions for Operation
- D. NDE - Nondestructive Examination

3.0 RESPONSIBILITIES

NOTE: General responsibilities of V.C. Summer Nuclear Station personnel for the ISI Program are addressed in Reference 2.1.1. Those responsibilities specific to the examination and testing of component supports in the ISI Program follow.

- 3.1 The Director, Nuclear Plant Operations, shall be responsible for the overall development and implementation of the Inservice Inspection Program for the plant.
- 3.2 SAP-145 describes and delineates the responsibilities of those departments associated with the implementation of this procedure.

4.0 GENERAL

4.1 Components

- 4.1.1 The examination requirements of the Code shall apply to all component supports (including snubbers) of Code Class 1, 2 and 3 systems or components, unless specifically exempted by the Code. Component supports or snubbers may be exempted from examination by the granting of relief by the NRC.
- 4.1.2 Hydraulic and mechanical snubbers which require examination and test are identified on Attachment I and Attachment II. The snubbers listed encompass those snubbers required by Technical Specifications to be examined and tested. Snubbers that are especially difficult to remove or in high exposure zones during shutdown may be exempted through relief requests.

4.2 Preservice Inspection

NOTE: The Preservice Inspection Program for baseline examination was conducted in accordance with ASME Code, Section XI, 1974 Edition through Summer 1975 Addenda. All subsequent preservice inspections will be in accordance with Reference 2.1.2 and/or 2.1.3.

NOTE: Preservice testing and examination of component supports and snubbers required by subsection IWB, IWC and IWD of the Code was completed as part of the Thermal Expansion Program (Reference 2.1.5) and through IEB 81-01. Operational preservice testing, to satisfy Technical Specification 4.7.7, will be accomplished by initial performance of STP-403 Series (Reference 2.1.4).

- 4.2.1 The Preservice Inspection Report shall be maintained to serve as baseline data for comparison with Inservice Inspection results.
- 4.2.2 A preservice examination of component supports, which are subject to the Inservice Inspection Program, will be conducted following repair, alteration or replacements to establish new baseline data as required by IWA-7530 of the Code.

4.3 Inservice Inspection

- 4.3.1 All component supports and snubbers addressed in Section 4.1 of this procedure will be subjected to inservice examinations and tests throughout the service life of the plant.
- 4.3.2 Inservice examinations and tests for component supports and snubbers will be conducted in accordance with the 403 Series of Surveillance Test Procedures or other approved procedures.

4.4 Examination Schedule

4.4.1 Inspection Interval for Component Supports

- A. Inservice examinations for component supports required by subsections IWB, IWC and IWD of the Code shall be completed during each of the inspection intervals for the service lifetime of the plant. The inspections shall be performed in accordance with the schedule shown on Enclosure 7.2 and may be performed during either normal system operation or plant outages.
- B. Inspection interval shall be determined by calendar years subsequent to initial commercial operation.
- C. Each inspection interval may be decreased or extended (but not cumulatively) by as much as one year if the plant is out of service continuously for 6 months or more. The inspection interval during which the outage occurred may be extended for a period equivalent to the outage.

NOTE: Unless otherwise noted, the maximum allowable extension of an examination interval (or period) is 25%. In addition, the maximum combined interval (or period) for 3 consecutive intervals (periods) is not to exceed 3.25 times the specified interval (period).

- D. When the results of component support inspections do not qualify as "acceptable by examination" in accordance with IWB-3000, IWC-3000 and IWD-3000 of the Code, the examination schedule shall be adjusted as allowed by the Code in order to produce acceptable results through repair, replacement or evaluation.
- E. The inspection interval for component supports replaced, added, modified or repaired during the service lifetime of the plant shall coincide with the remaining interval at the time of such action.

4.4.2 Examination Interval for Tech. Spec. Snubbers.

- A. Snubbers listed on Attachment I and Attachment II shall be examined visually at the following frequency:
 - 1. The first inservice visual inspection of snubbers shall be performed after four months but within 10 months of commencing power operation. Subsequent visual inspections shall be performed in accordance with the schedule below. Snubbers may be categorized into two groups: those accessible and those inaccessible during reactor operation. Each group may be inspected independently in accordance with the following schedule:

<u>No. Inoperable Snubbers Per Inspection Period</u>	<u>Subsequent Visual Inspection Period*</u>
0	18 months \pm 25%
1	12 months \pm 25%
2	6 months \pm 25%
3, 4	124 days \pm 25%
5, 6, 7	62 days \pm 25%
8 or more	31 days \pm 25%

- * NOTE: The inspection interval shall not be lengthened more than one step at a time. Visual examination frequency is governed by Technical Specifications.

4.4.3 Inservice Testing for Tech Spec Snubbers

- A. Snubbers listed on Attachment I and Attachment II shall be operationally tested at the following frequency:
1. For hydraulic snubbers, at least once per 18 months during shutdown, a representative sample of 10% of the snubbers listed in Attachment I shall be operationally tested either in place or in a bench test. For each snubber which does not meet the operational test acceptance criteria of specification 4.7.7.d or 4.7.7.e, an additional 10% of the snubbers shall be operationally tested until no more failures are found or until all snubbers have been functionally tested.
 2. For mechanical snubbers, a representative sample of each type of snubber listed in Attachment II shall be operationally tested in accordance with Figure 4.7.1 (Enclosure 7.1), which includes acceptance and rejection criteria. On Figure 4.7.1, "C" is the total number of snubbers found with locking velocity or bleed rate or drag force not meeting the acceptance criteria. The cumulative number of snubbers tested is denoted by "N". At the end of each segment of testing, new values of "N" and "C" (previous segments plus current segment) shall be plotted on Figure 4.7.1. If at any time the point plotted falls in the "Accept" region, testing of that type snubber shall be terminated. When the point plotted lies in the "Continue Testing" region, additional snubbers shall be tested until the point falls in the "Accept" region or the "Reject" region, or all the snubbers of that type have been tested.

a. The representative samples selected for operational testing shall include the various configurations, operating environments and the range of size and capacity of snubbers. The representative samples shall be selected randomly from the total population identified in Attachment II.

3. Snubbers of a representative sample which fail the operational test shall be retested during the next test period, but will not be included as part of the representative sample for that test period.

4. For each snubber which does not meet the operational test acceptance criteria of Technical Specification 4.7.4.d or 4.7.4.e, an engineering evaluation will be conducted to determine the cause of failure and to identify other snubbers which may be subject to the same type failure. All other snubbers determined to be subject to the same type failure shall be operationally tested or otherwise determined operable.

4.4.4 Class 1 and Class 2 Supports Examination Frequency and Requirements.

a. Each component support, tabulated in Attachment III and IV, shall be examined during each interval for the service lifetime of the plant.

b. The affected supports shall be visually examined (VT-3) in accordance with approved procedures.

c. In addition to the requirements established in 4.4.4(B), spring type supports and snubbers shall be visually examined (VT-4) in accordance with approved procedures and/or drawings (S-321).

- d. Existing interferences nor the affected component support (excluding snubbers) need not be removed in order to perform the required examination(s). The accessible exposed surfaces of each support (excluding snubbers) shall be examined to "the extent practical" while such supports are in their normally installed position. The use of optical aids is permitted.
- e. Snubbers which are specifically required to be examined/tested by Technical Specifications need not be additionally examined to the requirements of ASME Section XI Code.
- f. Snubbers, which are not required to be examined and/or tested by Technical Specifications but are required to be examined/tested by ASME Section XI Code, shall be examined/tested once per interval.

NOTE: Class 2 component supports exempted by IWC-1220 and/or IWC-1230 and snubbers required to be tested/examined by Technical Specifications are not included in Attachments III and IV.

4.4.5 Class 3 Supports Examination Frequency and Requirements.

- A. Each component support and each restraint, tabulated in Attachments III and IV, shall be examined during each inspection period of each interval for the service lifetime of the plant.
- B. The Requirements of 4.4.4(B), (C), (D), (E) and (F) apply.

NOTE: Class 3 component supports which are attached to pressure retaining components, piping, pumps, and valves < 4" NPS and snubbers required to be tested/examined by Technical Specifications are not included in Attachments III and IV.

4.4.6 Code Component Support Categorization

A.

	CATEGORY	ITEM NO	PARTS EXAMINED
CLASS 1	B-K-2	B 11.010	Piping Supports
	B-K-2	B 11.020	Pump Supports
	B-K-2	B 11.030	Valve Supports
CLASS 2	C-E	C3.050	Piping Supports
	C-E	C3.060	Piping Snubbers
	C-E	C3.060	Piping Spring Hangers
	C-E	C3.080	Pump Supports
	C-E	C3.090	Pump Snubbers
	C-E	C3.090	Pump Spring Hangers
	C-E	C3.110	Valve Supports
	C-E	C3.120	Valve Snubbers
	C-E	C3.120	Valve Spring Hangers
CLASS 3 NOTES (1) & (2)	D-A	D.1.002	>4" NPS Supports
	D-A	D.1.003	>4" NPS Snubbers
	D-A	D.1.003	>4" NPS Spring Hangers
	D-B	D.2.002	>4" NPS Supports
	D-B	D.2.003	>4" NPS Snubbers
	D-B	D.2.003	>4" NPS Spring Hangers
	D-C	D.3.002	>4" NPS Supports
	D-C	D.3.003	>4" NPS Snubbers
	D-C	D.3.003	>4" NPS Spring Hangers

NOTE 1: Component supports and restraints within the boundaries of systems exceeding 4" NPS.

NOTE 2: Mechanical Snubbers and Variable Spring Hangers within the boundaries of systems exceeding 4" NPS.

4.5 Examination and Testing

4.5.1 Component Supports (Excluding Snubbers)

- A. The visual examination methods to be used for the component supports are specified in Tables IWB-2500-1, IWC-2500-1 and IWD-2500-1 of the Code. The two types of visual examinations required of the ISI of component supports are as follows:
 - 1. VT-3. This visual examination shall be conducted to determine the general mechanical and structural conditions of component supports. (IWA-2113 of the Code)
 - 2. VT-4. This visual examination shall be conducted to determine conditions relating to operability on component supports. (IWA-2214 of the Code)
- B. The various examination methods required to perform ISI will be under the administration of SCE&G approved procedures.
- C. Personnel performing the examinations or evaluating results will be qualified to the specified level in accordance with IWA-2300 of the Code as per Reference 2.1.7.

4.5.2 Snubbers

- A. The visual examination methods to be used for snubber inspections are specified in Technical Specification 4.7.7.6.
- B. The various examination methods required to perform ISI will be under the administration of SCE&G approved procedures.
- C. Personnel performing the examinations will be qualified in accordance with IWA-2300 of the Code.
- D. Visual inspections shall verify (1) that there are no visible indications of damage or impaired OPERABILITY, and (2) that attachments to the foundation or supporting structure are secure.

- E. Operational testing of snubbers to meet Code and Technical Specification requirements shall be conducted utilizing 403 Series of Surveillance Test Procedures (STP's). The snubber operational test shall verify that activation (restraining action) is achieved within the specified range in both tension and compression for hydraulic snubbers and that activation takes place in both directions of travel for mechanical snubbers. Additionally, fasteners for attachment of the snubber to the component and to the snubber anchorage are verified secure.

NOTE: Testing methods may be used to measure parameters other than those specified if those results can be correlated to the specified parameters through established methods.

- 4.6 Repairs, Replacements, Alterations and Additions for Component Supports, Including Snubbers
- 4.6.1 Repairs to defects in welds or defects which require welds to attach components replaced, added, or altered for component supports or snubbers will be performed in accordance with SAP-304.
 - 4.6.2 Successive examinations of repaired, added, altered or replaced component supports are addressed in section 4.4 of this procedure.
 - 4.6.3 Replacements, alterations and additions will be conducted in accordance with the applicable MMP-305 Maintenance Procedures.
- 4.7 Hanger Inspection Plan
- 4.7.1 The hanger inspection plan (Attachment V) will be completed prior to implementing the inspection/examination/testing requirements established in 4.4.4 and 4.4.5 of this procedure.
 - 4.7.2 The number of hangers shall be identified as required by enclosures.

- 4.7.3 The plan may be changed or modified providing the requirements of Enclosure 7.1 and 7.2 and other code requirements are met.

5.0 RECORDS

- 5.1 The ISI Coordinator will assure the retention and maintenance of the records required by Technical Specification 6.10.2 and IWA-6210 of the Code. These records must be maintained for the service lifetime of the component support or snubber. Records maintained shall include the following:
- 5.1.1 Examination plans and schedules which effectively track the status of the inservice examination of component supports, including snubbers. These plans and schedules will identify the component supports and snubbers which require examination and the point in the inspection interval where the examination will be conducted. These schedules will be adjusted as necessary to account for plant outages, repairs, alterations, replacements or additions; successive examinations and any supplemental examinations or testing as may be required.
 - 5.1.2 Reports of examination and test results which have been certified by the ANII. These results provide a basis for evaluation and facilitate trending analysis.
 - 5.1.3 Reports of results evaluations.
 - 5.1.4 Copies of procedures used to perform examinations and tests.
 - 5.1.5 Reports of corrective actions, repair and replacement, to include: procedure used to implement specific repair or replacement; copies of acceptable inspection/examination repair or replacement data sheets, drawings, radiographs, etc.
 - 5.1.6 Copies of Inservice Inspection Reports (Summary) filed with the NRC.
 - 5.1.7 Copies of any preservice examination and test results (baseline or repair) to assure reference data for subsequent inservice inspections.

- 5.1.8 Records of the service life of each hydraulic snubber, the date at which the designated service life commences and the installation and maintenance records on which the designated service life is based. When service life for seals is \geq 40 years periodic maintenance records need not be kept.
- 5.2 Hanger Inspection Summary (Attachment VI).
 - 5.2.1 A Hanger Inspection Summary shall be completed after each inservice inspection.
 - 5.2.2 This summary shall be maintained for the service lifetime of the plant.
 - 5.2.3 This Summary may be utilized to complete the NIS-1 form. (SAP-145).
- 5.3 Hanger inspection unacceptable indications summary (Attachment VII).
 - 5.3.1 This summary will be completed for hangers having unacceptable indications and requiring disposition to return such hangers to normal service.
 - 5.3.2 This summary shall be maintained for the service lifetime of the plant. It may be utilized to complete the NIS-1 form.
- 5.4 Hanger Inspection Status Report (Attachment VIII)
 - 5.4.1 This status report will be completed for hanger inspections completed during each interval of inservice inspection.
 - 5.4.2 The status report will be maintained for the service lifetime of the plant. It may be utilized to complete the NIS-1 form.
- 5.5 The Manager, Nuclear Quality Control shall maintain qualification records for SCE&G personnel performing NDE inspections or evaluating NDE results.
- 5.6 The Welding Repair Program shall be maintained by the Welding Supervisor. (Reference 2.1.9, SAP-304.)

6.0 RESULTS

- 6.1 Visual examination of integral welded supports attached to pressure retaining components shall be conducted in accordance with the requirements of IWA-2213 and IWA-2214 of the Code under the administration of GTP-303.

NOTE: When a visual examination indicates a surface flaw indication on a component support or snubber, it shall be unacceptable for continued service unless supplemental examinations (per IWB-3200 of the Code) show that flaw indications are within the acceptance criteria of the Code.

- 6.2 Snubbers which appear inoperable as a result of visual inspection may be determined OPERABLE, and therefore be excluded from being counted as inoperable for the purpose of establishing the next visual inspection interval, providing that the cause of the failure is clearly established and remedied for that particular snubber and for any other snubbers that may be generically susceptible; Technical Specifications 4.7.7.d or 4.7.7.f as applicable.
- 6.3 For any snubbers found inoperable, an engineering evaluation shall be performed on the components which are supported by the snubber(s). The purpose of this evaluation shall be to determine if the components supported by the snubber(s) were adversely affected and to determine if continued service is acceptable.

7.0 ENCLOSURES

- 7.1 Sampling Plan for Snubber Functional Test.
- 7.2 Component Support Inspection Program.

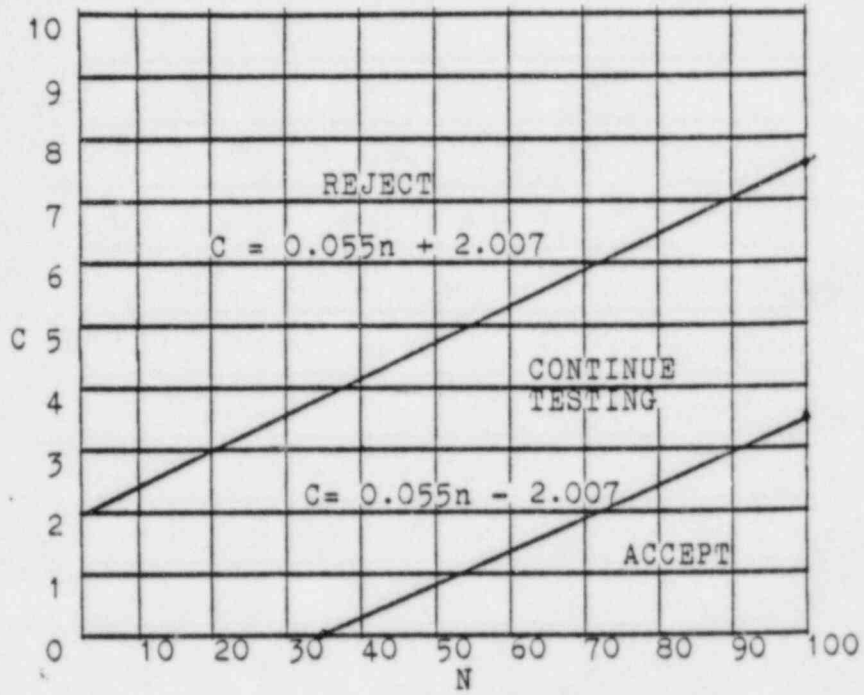


FIGURE 4.7.1 SAMPLING PLAN FOR SNUBBER FUNCTIONAL TEST

COMPONENT SUPPORTS

INSPECTION PROGRAM B

Inspection Interval	Inspection Period Calendar Years of Plant Service	Minimum Examinations Completed, %	Maximum Examinations credited %
1st	3	16	34
	7	50	67
	10	100	100
2nd	13	16	34
	17	50	67
	21	100	100
3rd	23	16	34
	27	50	67
	30	100	100
4th	33	16	34
	37	50	100
	40	100	...

NOTE: 1) The inspection period may be decreased or extended by as much as one year to enable an inspection to coincide with a plant outage within the limitations of IWA-2400 (c) of the Code.

HYDRAULIC SNUBBERS

A LOOP

XQG-0003-A1
XQG-0003-A2
XQG-0003-A3
XQG-0003-A4
XQG-0003-A5

B LOOP

XQG-0003-B1
XQG-0003-B2
XQG-0003-B3
XQG-0003-B4
XQG-0003-B5

C LOOP

XQG-0003-C1
XQG-0003-C2
XQG-0003-C3
XQG-0003-C4
XQG-0003-C5

Descriptor/Stubber

Drawing(s)

STEAM GENERATOR BLOWDOWN SYSTEM (BD)

PEN 326 TO STEAM GENERATOR "A"

C-314-781 Sheet 1
D-302-781

BDH-001
BDH-004
BDH-006
BDH-005
BDH-013
BDH-008
EDH-010
BDH-011

PEN 224 TO STEAM GENERATOR "B"

C-314-781 Sheet 2
D-302-781

BDH-022
BDH-023
BDH-017
BDE-018
BDR-4007
BDE-015
BDH-014
BDH-4000
BDH-4001

PEN 219 TO STEAM GENERATOR "C"

C-314-781 Sheet 3
D-302-781

BDE-044
BDH-042
BDH-040
BDH-039
BDH-038
BDH-036
LDH-035
PDH-033
BDH-032
EDH-025
BDH-028
PDH-029
BDH-031
BDH-4004
BDH-026

Description/Snubber

Drawing(s)

STEAM GENERATOR BLOWDOWN SYSTEM (BD)

BDH-1001	SE-BD-011
BDH-1004	SE-BD-012
BDH-1007	SE-BD-013
BDH-1010	SE-BD-004
BDH-1013	SE-BD-002
BDH-1014	SE-BD-012
BDH-1018	SE-BD-001
BDH-1053	SE-BD-011
BDH-1054	SE-BD-011
BDH-1055	SE-BD-012
BDH-1056	SE-BD-012
BDH-1057	SE-BD-013
BDH-1058	SE-BD-013

COMPONENT COOLING SYSTEM (CC)

24" HEADER TO SPENT FUEL HEAT
EXCHANGERS A AND B

C-314-611 Sht 2
D-302-611
D-302-613

CCH-025

Description/Stubber

Drawing(s)

COMPONENT COOLING HEAT EXCHANGERS A AND B
TO COMPONENT COOLING PUMPS A, B, AND C

C-314-611 Sht. 9
D-302-611

CCH-773
CCH-754
CCH-755
CCH-756
CCH-765
CCH-764
CCH-767
CCH-771

24" RETURN HEADER TO CC HX A

C-314-611 Sht. 12
D-302-611

CCH-126
CCH-329
CCH-322
CCH-323
CCH-318
CCH-305

CC PUMPS A, B, AND C TO RHR HX A

C-314-611 Sht. 16
D-302-611

CCH-387
CCH-394
CCH-395
CCH-100
CCH-392
CCH-397
CCH-398
CCH-084
CCH-082
CCH-117
CCH-081
CCH-121

VALVE 9523A-CC TO RHR HX B

C-314-611 Sht. 17
D-302-611

CCH-103 (DOUBLE)
CCH-306
CCH-386
CCH-376

Description/Snubber

Drawing(s)

MISC. SERV. TO COMPONENT COOLING
HX B

C-314-611 Sht. 18
D-302-611

CCH-296
CCH-127
CCH-297
CCH-298
CCH-295
CCH-293
CCH-294
CCH-291
CCH-108

RCDT HEAT EXCHANGER TO
PENETRATION 330

C-314-611 Sht. 21
D-302-612

CCH-453

CCH-0240
CCH-0351
CCH-0371
CCH-0372
CCH-1020
CCH-1034
CCH-1657
CCH-1659
CCH-1660
CCH-1682
CCH-1685

SE-CC-026
SE-CC-020
SE-CC-033
SE-CC-032
SE-CC-007
SE-CC-008
SE-CC-018
SE-CC-030
SE-CC-030
SE-CC-032
SE-CC-033

CHEMICAL AND VOLUME CONTROL SYSTEM (CS)

CHARGING LINE FROM PEN 409 TO
REGENERATIVE HEAT EXCHANGER

C-314-671 Sht. 1
114E073 Sht. 1

CSH-164
CSH-4007
CSH-4006

Description/Snubber

Drawing(s)

LOOP A CROSSOVER TO REGENERATIVE
HEAT EXCHANGER

C-314-671 Sht. 2
114E072, 114E073
Sht. 1

CSH-4035
CSH-4034
CSH-931
WDH-051
WDH-053
WDH-061
CSH-936
CSH-4036
CSH-4033
CSH-4032
CSH-933
CSH-937
CSH-4030

LOOP C CROSSOVER TO EXCESS LETDOWN
HEAT EXCHANGER

C-314-671 Sht. 3
114E072, 114E073 Sht. 1

CSH-950
CSH-945
CSH-949
CSH-947
CSH-948
CSH-959
CSH-765
CSH-935
WDH-060
WDH-059

PEN 318 TO REGENERATIVE HEAT
EXCHANGER

C-314-671 Sht. 4
114E073 Sht. 1

CSH-797
CSH-799
CSH-800
CSH-810
CSH-813
CSH-817
CSH-818

Description/Snubber

Drawing(s)

REGENERATIVE HEAT EXCHANGER TO
ANCHOR ABOVE 425'0"

C-314-671 Sht. 5
E-302-673

CSH-869
CSH-864

ANCHOR AT 425'9" TO PRESSURIZER
SPRAY PIPING

C-314-671 Sht. 6
E-302-673

CSH-872
CSH-873
CSH-979
CSH-875
CSH-876
CSH-978
CSH-885
CSH-889
CSH-890
CSH-893
CSH-892
CSH-894
CSH-896
CSH-973
CSH-897
CSH-895
CSH-972
CSH-971
CSH-970
CSH-969

ALTERNATE CHARGING LINE FROM ANCHOR
ABOVE ELEVATION 425'0" TO LOOP A

C-314-671 Sht. 7
114E073 Sht. 1

CSH-924
CSH-929
CSH-369
CSH-927
CSH-930
CSH-926
CSH-925
CSH-923
CSH-922
CSH-921

Description/Snubber

Drawing(s)

NORMAL CHARGING FROM ANCHOR
ABOVE 425'0" TO LOOP B

C-314-671 Sht. 8
114E072, 114E073 Sht. 1

CSH-465
CSH-468
CSH-467
CSH-471
CSH-472
CSH-474
CSH-917 (DOUBLE)
CSH-916
CSH-480
CSH-481
CSH-483
CSH-920
CSH-477
CSH-478

SEAL INJECTION FROM PEN 229 TO
RCP B

C-314-671 Sht. 10
E-302-672

CSH-770
CSH-769
CSH-768
CSH-766

SEAL INJECTION FROM PEN 221
TO RCP C

C-314-671 Sht. 11
E-302-673

CSH-825
CSH-172
CSH-776
CSH-781
CSH-782
CSH-784
CSH-786

Description/Snubber

Drawing(s)

SEAL INJECTION FROM PEN 408 TO
RCP A

C-314-671 Sht. 12
E-302-671

CSH-985
CSH-792

RCP C SEAL BYPASS TO NO. 1 SEAL
LEAKOFF HEADER

C-314-671 Sht. 19
E-302-673

CSH-989

RCP B SEAL BYPASS TO NO. 1 SEAL
LEAKOFF HEADER

C-314-671 Sht. 20
E-302-672

CSH-996

CVCS FROM CHG/SI PUMPS DISCHARGE
HEADER

C-314-671 Sht. 24
114E073 Sht. 3

CSH-4004
CSH-4005

CHG/SI PUMPS DISCHARGE TO DISCHARGE
HEADER

C-314-671 Sht. 25
114E073 Sht. 3

CSH-4019
CSH-086

Description/Snubber

Drawing(s)

SEAL WATER HEAT EXCHANGER INLET
PIPING

C-314-671 Sht. 33
114E073 Sht. 3

CSH-4029

CSH-0184
CSH-0251
CSH-0252
CSH-0256
CSH-0257
CSH-0259
CSH-0263
CSH-0264
CSH-0265
CSH-0283
CSH-0294
CSH-1132
CSH-1494
CSH-1660
CSH-1984
CSH-1989
CSH-1990
CSH-1991
CSH-1995

SE-CS-032
SE-CS-029
SE-CS-029
SE-CS-029
SE-CS-029
SE-CS-029
SE-CS-029
SE-CS-029
SE-CS-029
SE-CS-029
SE-CS-029
SE-CS-029
DE-CS-006
DE-CS-024
DE-CS-024
SE-CS-029
DE-CS-024
DE-CS-025
DE-CS-075

DIESEL GENERATOR SYSTEM (DG)

DIESEL GENERATOR A

DGH-003	SE-DG-006
DGH-007	SE-DG-007
DGH-008	SE-DG-007
DGH-011	SE-DG-007
DGH-013	SE-DG-007
DGH-014	SE-DG-007
DGH-019	SE-DG-008
DGH-020	SE-DG-012
DGH-021	SE-DG-008
DGH-023	SE-DG-008
DGH-025	SE-DG-008

Description/Snubber

Drawing(s)

DIESEL GENERATOR B

DGH-004	SE-DG-006
DGH-009	SE-DG-007
DGH-010	SE-DG-007
DGH-012	SE-DG-007
DGH-022	SE-DG-012
DGH-026	SE-DG-012
DGH-024	SE-DG-012

EMERGENCY FEEDWATER SYSTEM (EF)

TDEFP DISCHARGE TO 18" HEADER (TDEFP TO PEN 213)	C-314-085 Sht. 1 D-302-083
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EFH-051
EFH-183
EFH-182
EFH-174
EFH-175

MDEFP A DISCHARGE TO 18" HEADER (MDEFP A TO PEN 308)	C-314-085 Sht. 2 D-302-083, D-302-085
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EFH-178
EFH-179
EFH-172
EFH-173

MDEFP B DISCHARGE TO 18" HEADER (MDEFP B TO PEN 205)	C-314-085 Sht. 3 D-302-083, D-302-085
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EFH-4030
EFH-013
EFH-012
EFH-177
EFH-176
EFH-180
EFH-181
EFH-007

<u>Description/Snubber</u>	<u>Drawing(s)</u>
MDEFP A AND B SUCTION	C-314-085 Sht. 5 D-302-085
EPH-4019 EPH-4021 EPH-101	
PEN 306 TO STEAM GENERATOR "A"	C-314-081 Sht. 1 D-302-083
FWH-010 FWH-011 FWH-119 FWH-337 FWH-336 (DOUBLE)	
PEN 206 TO STEAM GENERATOR "B"	C-314-081 Sht. 2 D-302-083
FWH-338 FWH-332 FWH-331	
PEN 203 TO STEAM GENERATOR "C"	C-314-081 Sht. 3 D-302-083
FWH-339 (DOUBLE) FWH-341 FWH-346	
PEN 308 TO STEAM GENERATOR "A"	C-314-081 Sht. 23 D-302-083
EPH-131	
PEN 205 TO STEAM GENERATOR "B"	C-314-081 Sht. 25 D-302-083
EPH-1031 EPH-1030 EPH-143 EPH-144 EPH-145	

Description/Snubber

Drawing(s)

PEN #213 TO STEAM GENERATOR "C"

C-314-081 Sht. 27
D-302-083

EPH-154
EPH-4011
EPH-4012

PEN 206, TO FEEDWATER LOOP "B"

C-314-081 Sht. 30
D-302-083

FWH-352
FWH-126
FWH-217
FWH-131
FWH-211
FWH-279
FWH-278
FWH-270
FWH-303

PEN 306 INTERMEDIATE BUILDING TO
LOOP "A"

C-314-081 Sht. 31
D-302-083

FWH-351
FWH-152
FWH-156
FWH-280
FWH-281
FWH-260

EPH-1018
EPH-1019
EPH-1020
EPH-1021
EPH-1022
EPH-1023

DE-EF-01
DE-EF-01
DE-EF-01
DE-EF-01
DE-EF-01
DE-EF-01

Description/Snubber

Drawing(s)

PEN 203 INTERMEDIATE BUILDING
 TO LOOP "C"

C-314-081 Sht. 32
 D-302-083

FWH-383
 FWH-354
 FWH-183
 FWH-181
 FWH-255
 FWH-276
 FWH-277
 FWH-367
 FWH-265

MAIN FEEDWATER REVERSE FLUSH - LOOP "A"

C-314-081 Sht. 36

FWH-474
 FWH-475

MAIN FEEDWATER REVERSE FLUSH - LOOPS "A" + "C"

C-314-081 Sht. 37

FWH-400

FWH-0128
 FWH-1001
 FWH-1002
 FWH-1003
 FWH-1005
 FWH-1015
 FWH-1016
 FWH-1017
 FWH-1019
 FWH-1054
 FWH-1055
 FWH-1109

SE-FW-015
 DE-FW-004
 DE-FW-004
 DE-FW-004
 DE-FW-004
 DE-FW-008
 DE-FW-008
 DE-FW-008
 DE-FW-008
 DE-FW-006
 DE-FW-006

MAIN STEAM SYSTEM (MS)

STEAM GEN "A" TO PEN 428

C-314-011 Sht. 1
 D-302-011

MSH-004
 MSH-005
 MSH-002
 MSH-003

STEAM GEN "B" TO PEN 207

C-314-011 Sht. 2
 D-302-011

MSH-010
 MSH-009
 MSH-007
 MSH-008

Description/Snubber

Drawing(s)

STEAM GEN "C" TO PEN 202

C-314-011 Sht. 3
D-302-011

MSH-015
MSH-014
MSH-012
MSH-013

STEAM SUPPLY TO EMERGENCY
FEEDWATER PUMP XPP-8-EF

C-314-011 Sht. 8
D-302-011

MSH-324
MSH-201
MSH-202
MSH-325
MSH-206
MSH-204
MSH-339
MSH-314
MSH-315
MSH-316
MSH-317
MSH-318
MSH-218
MSH-321
MSH-319
MSH-322
MSH-240
MSH-338
MSH-323
MSH-244
MSH-289
MSH-290
MSH-337
MSH-349
MSH-348
MSH-320
MSH-226
MSH-227
MSH-229
MSH-230
MSH-326
MSH-352
MSH-205
MSH-232
MSH-233

Description/Snubber

Drawing(s)

MAIN STEAM POWER RELIEF LOOP "A" C-314-011 Sht. 14
D-302-011
MSH-167
MSH-291
MSH-292
MSH-169
MSH-168
MSH-052

MAIN STEAM POWER RELIEF LOOP "B" C-314-011 Sht. 15
D-302-011
MSH-175
MSH-174
MSH-294
MSH-293
MSH-078

MAIN STEAM POWER RELIEF LOOP "C" C-314-011 Sht. 16
D-302-011
MSH-182
MSH-296
MSH-295
MSH-183
MSH-184
MSH-186

PEN #428 TO MANIFOLD INTERMEDIATE BUILDING C-314-011 Sht. 20
D-302-012
MSH-051
MSH-054
MSH-309 (DOUBLE)
MSH-057 (DOUBLE)
MSH-058
MSH-064
MSH-070
MSH-158
MSH-285
MSH-284
MSH-157

Description/ Snubber

Drawing(s)

PEN #207 TO MANIFOLD
INTERMEDIATE BUILDING

C-314-011 Sht. 21
D-302-011
D-302-012

MSH-085
MSH-246
MSH-287
MSH-286
MSH-245
MSH-151
MSH-067
MSH-081

PEN #202 TO MANIFOLD
INTERMEDIATE BUILDING

C-314-011 Sht. 22
D-302-012

MSH-112 (DOUBLE)
MSH-302 (DOUBLE)
MSH-109
MSH-102
MSH-095 (DOUBLE)
MSH-247
MSH-249
MSH-283
MSH-288
MSH-092
MSH-094

MAIN STEAM MANIFOLD
INTERMEDIATE BUILDING

C-314-011 Sht. 23
D-302-011

MSH-307
MSH-301

MSH-1001
MSH-1004
MSH-1005
MSH-1008
MSH-1010
MSH-1011
MSH-1013
MSH-1632
MSH-1633

DE-MS-06
DE-MS-06
DE-MS-06
DE-MS-06
DE-MS-01
DE-MS-01
DE-MS-01
DE-MS-054
DE-MS-054

Description/ Snubber

Drawing(s)

MSH-1642	DE-MS-005
MSH-1646	DE-MS-001
MSH-1647	DE-MS-001
MSH-1648	DE-MS-001
MSH-1649	DE-MS-001
MSH-1650	DE-MS-001
MSH-1652	DE-MS-005
MSH-1654	DE-MS-054

INSTRUMENT SNUBBERS

MS-LS-2002-H3 A & B	DE (I) MS-LS-2002-H3
MS-LS-2008-H2	DE (I) MS-LS-2008-H2
MS-LS-2012-H4	DE (I) MS-LS-2012-H4
MS-LS-2012-H5	DE (I) MS-LS-2012-H5
MS-LS-2022-H2	DE (I) MS-LS-2022-H2
MS-LS-2022-H3 A & B	DE (I) MS-LS-2022-H3
MS-LS-2028-H2	DE (I) MS-LS-2028-H2

NUCLEAR DRAINS SYSTEM (ND)

NDH-1016	DE-ND-038
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NITROGEN GAS SYSTEM (NG)

NGH-1021	DE-NG-005
NGH-1022	DE-NG-004

Description/Snubber

Drawing(s)

REACTOR COOLANT SYSTEM (RC)

PRESSURIZER MOTORIZED RELIEFS TO
12" HEADER

C-314-601 Sht. 1
(Sheet 1 same as
Sheet 31)
114E072 Sht. 2

RCH-044
RCH-043
RCH-042
RCH-041
RCH-045
RCH-046
RCH-047
RCH-048
RCH-4018 (DOUBLE)
RCH-4019 (DOUBLE)
RCH-063
RCH-064
RCH-065
RCH-4003
RCH-4020
RCH-052
RCH-053
RCH-062
RCH-391
RCH-4017 (DOUBLE)
RCH-051
RCH-4015 (DOUBLE)
RCH-055
RCH-056
RCH-4001
RCH-066
RCH-397
RCH-069
RCH-398

PRESSURIZER SAFETY VALVE DISCHARGE
TO PRESSURIZER RELIEF TANK

C-314-601 Sht. 2
(Sheet 2 same as
Sheet 32)
114E072 Sht. 2

RCH-092
RCH-091
RCH-085
RCH-087
RCH-088
RCH-083

Description/ Snubber

Drawing(s)

PRESSURIZER SPRAY FROM
LOOPS A AND C

C-314-601 Sht. 4
114E072 Sht. 1 & 2

RCH-306
RCH-305
RCH-291
RCH-307
RCH-308
RCH-319
RCH-309
RCH-179
RCH-323 (DOUBLE)
RCH-181
RCH-182
RCH-324
RCH-325
RCH-184
RCH-185
RCH-186
RCH-292
RCH-293
RCH-315
RCH-316
RCH-314
RCH-294
RCH-295
RCH-296
RCH-335
RCH-297
RCH-310

PRESSURIZER SURGE LINE

C-314-601 Sht. 5
114E072 Sht 1 & 2

RCH-001
RCH-220
RCH-218
RCH-219

Description/Snubber

Drawing(s)

LOOP B HOT LEG RTD MANIFOLD

C-314-601 Sht. 6
114E072 Sht. 1 & 3

RCH-259
RCH-243
RCH-248
RCH-249
RCH-252
RCH-141
RCH-140
RCH-138
RCH-246
RCH-134
RCH-255
RCH-250

LOOP B COLD LEG RTD MANIFOLD

C-314-601 Sht. 7
114E072 Sht. 1 & 3

RCH-258
RCH-121
RCH-124
RCH-125
RCH-260
RCH-261
RCH-256
RCH-253
RCH-264
RCH-263
RCH-254
RCH-244
RCH-245
RCH-384

Description/Snubber

Drawing(s)

LOOP A HOT LEG RTD MANIFOLD

C-314-601 Sht. 8
114EO72 Sht. 1 & 3

RCH-234
RCH-233
RCH-232
RCH-025
RCH-024
RCH-023
RCH-235
RCH-022
RCH-238
RCH-242 (DOUBLE)
RCH-018
RCH-240
RCH-239
RCH-241
RCH-014
RCH-224

LOOP A COLD LEG RTD MANIFOLD

C-314-601 Sht. 9
114EO72 Sht. 1 & 3

RCH-227
RCH-230
RCH-225
RCH-226
RCH-229
RCH-009
RCH-228
RCH-266
RCH-012

LOOP C HOT LEG RTD MANIFOLD

C-314-601 Sht. 10
114EO72 Sht. 1 & 3

RCH-283
RCH-279
RCH-280
RCH-156
RCH-160 (DOUBLE)
RCH-161
RCH-278
RCH-277
RCH-284
RCH-162

Description/Snubber

Drawing(s)

LOOP C COLD LEG RTD MANIFOLD

C-314-601 Sht. 11
114E072 Sht. 1 & 3

RCH-4007
RCH-4008
RCH-4006
RCH-382
RCH-4009
RCH-383
RCH-4011
RCH-4012
RCH-4005
RCH-4013
RCH-281
RCH-282
RCH-155
RCH-274
RCH-151
RCH-270
RCH-288
RCH-272
RCH-267
RCH-268
RCH-287

REACTOR VENT LINE TO PRESSURIZER
RELIEF TANK

C-314-601 Sht. 27 & Sht. 29
E-302-601

RCH-344
RCH-346
RCH-348
RCH-371
RCH-370
RCH-373
RCH-372
RCH-350
RCH-349
RCH-343
RCH-387
RCH-386
RCH-369
RCH-358
RCH-355
RCH-359
RCH-360
RCH-365
RCH-368
RCH-367

Description/Snubber

Drawing(s)

PRESSURIZER SPRAY FROM LOOPS
A AND C

C-314-601 Sht. 28
114E072 Sht. 1 & 2

RCH-320
RCH-321
RCH-322
RCH-328
RCH-331
RCH-330
RCH-326
RCH-327
RCH-333
RCH-329
RCH-205
RCH-302
RCH-332
RCH-298
RCH-303
RCH-312
RCH-313
RCH-311
RCH-304
RCH-301
RCH-199
RCH-299
RCH-300

RCH-1021
RCH-1022

DE-RC-023
DE-RC-023

Description/Snubber

Drawing(s)

RESIDUAL HEAT REMOVAL SYSTEM (RH)

PEN 316 TO LOOP A

C-314-641, Sht. 1
114E072 Sht. 1
114E074

RHH-190
RHH-189
RHH-185
RHH-286
RHH-183
RHH-184
RHH-266 (DOUBLE)
RHH-180
RHH-179
RHH-267
RHH-175
RHH-173
RHH-263

PEN 226 TO LOOP C

C-314-641 Sht. 2
114E072 Sht. 1
114E074

RHH-272
RHH-208
RHH-278
RHH-274
RHH-204
RHH-270
RHH-273
RHH-283
RHH-287
RHH-282
RHH-269
RHH-281
RHH-280
RHH-268
RHH-279

Description/Snubber

Drawing(s)

PEN 226 TO RHR PUMP B

C-314-641, Sht. 3
114E074

RHH-111
RHH-112
RHH-113
RHH-114
RHH-115
RHH-116
RHH-117
RHH-118
RHH-119
RHH-120
RHH-110
RHH-140
RHH-4008
RHH-124
RHH-123
RHH-122
RHH-121
RHH-142
RHH-141
RHH-143
RHH-144
RHH-145
RHH-4019
RHH-150
RHH-146
RHH-147
RHH-148
RHH-149

PEN 316 TO RHR PUMP A

C-314-641 Sht. 4
114E074

RHH-158
RHH-159
RHH-160
RHH-161
RHH-162
RHH-164
RHH-163
RHH-4009
RHH-4011
RHH-4026
RHH-154
RHH-155
RHH-157
RHH-156

Description/Snubber

Drawing(s)

RHR PUMP A TO RHR HX A

C-314-641 Sht. 5
114E074

RHH-4003
RHH-4006
RHH-103
RHH-104
RHH-4002
RHH-105
RHH-102
RHH-4004
RHH-106
RHH-108
RHH-107
RHH-099
RHH-100
RHH-109

RHR PUMP B TO RHR HX B

C-314-641 Sht. 6
114E074

RHH-125
RHH-129
RHH-128
RHH-126
RHH-139
RHH-131
RHH-130
RHH-133
RHH-132
RHH-134
RHH-135
RHH-136
RHH-137
RHH-138

RHR HX A TO CHG/SI PUMP A

C-314-641, Sht. 7
114E074

CSH-4047
RHH-4035
RHH-4034

Description/Snubber

Drawing(s)

RHR HX B TO CHG/SI PUMP B

C-314-641 Sht. 8
114E073, Sht. 3
114E074

CSH-019
CSH-025
CSH-039
CSH-040
CSH-041
CSH-042
CSH-043

RHR HX A AND B TO LETDOWN HX

C-314-641 Sht. 9
114E073 Sht. 2

RHH-260
RHH-257

PEN 322 TO RHR HX A

C-314-641 Sht. 11
114E074
114E075

RHH-224
RHH-223
RHH-4045
RHH-4044
RHH-225
RHH-226
RHH-089
RHH-228
RHH-227
RHH-4040
RHH-229
RHH-230
RHH-231
RHH-232
RHH-233
RHH-4064
RHH-234
RHH-235
RHH-101
RHH-236
RHH-237
RHH-4052

Description/Stubber

Drawing(s)

RHR HX A DISCHARGE TO RHR PUMP A
SUCTION

C-314-641 Sht. 12
114E074

RHH-038

RHR HX B TO VALVE 8887B

C-314-641 Sht. 14
114E074

RHH-221
RHH-220
RHH-127
RHH-219
RHH-218
RHH-217
RHH-171
RHH-170
RHH-168

RHR VALVE 8887B TO PEN 325

C-314-641 Sht. 15
114E075

SIH-089
RHH-165
RHH-152
RHH-153
RHH-4039
RHH-4055
RHH-151

Description/Snubber

Drawing(s)

RHR VALVE 8887B TO PEN 227

C-314-641 Sht. 15
114E075

RHH-166

RHH-167

RHH-029

RHH-211

RHH-210

RHH-212

RHH-213

RHH-214

RHH-215

RHH-4042

RHH-216

RHR HX B DISCHARGE TO RHR PUMP B
SUCTION

C-314-641 Sht. 13
114E074

RHH-064

RHH-056

RHH-054

RHH-1009
RHH-1025

DE-RH-002
DE-RH-002

SPENT FUEL COOLING SYSTEM (SF)

SPENT FUEL HX B TO RWST

C-314-651 Sht.2
D-302-651

SFH-4004

Description/Stubber

Drawing(s)

SAFETY INJECTION SYSTEM (SI)

RHR RECIRC SUMP TO RHR PUMP A
SUCTION

C-314-691 Sht. 1
114E075 Sht. 3

SIH-065
SIH-064

RHR RECIRC SUMP TO RHR PUMP B
SUCTION

C-314-691 Sht. 2
114E075 Sht. 3

SIH-067
SIH-068

RWST TO RHR PUMPS A AND B

C-314-691 Sht. 3
114E075 Sht. 3

SIH-051
SIH-052
SIH-053
SIH-054
SIH-055
SIH-056
SIH-057
SIH-058
SIH-069
SIH-070
RHH-4020
RHH-4021
RHH-4018
SIH-088
SIH-086
SIH-087
RHH-4010
SIH-226
SIH-099
RHH-4024
RHH-4023
SIH-063
SIH-062
RHH-4025
RHH-4022
SIH-059
SIH-060

Description/Snubber

Drawing(s)

CHG/SI PUMP A TO PEN 222

C-314-691 Sht. 4
114E075 Sht. 1

SIH-073
SIH-129
SIH-071
SIH-084
SIH-4000
SIH-097
SIH-098
SIH-093
SIH-095
SIH-092

CHG/SI PUMP A TO PEN 415

C-314-691 Sht. 4
114E075 Sht. 1

SIH-078
SIH-077

CHG/SI PUMP B TO PEN 412 AND
BORON INJECTION TANK

C-314-691 Sht. 5
114E075 Sht. 1

SIH-107
SIH-111
SIH-121
SIH-4010
SIH-123
SIH-128

ACCUMULATOR A TO COLD LEG - LOOP A

C-314-691 Sht. 6
114E072 Sht. 1
114E075 Sht. 2

SIH-144
SIH-146
SIH-148
SIH-151
SIH-390
SIH-391 (DOUBLE)
SIH-389
SIH-388

Description/Snubber

Drawing(s)

ACCUMULATOR B TO COLD LEG - LOOP B C-314-691 Sht. 7
114E072 Sht. 1
114E075 Sht. 2

SIH-172
SIH-417
SIH-418
SIH-416
SIH-168
SIH-166
SIH-421
SIH-419
SIH-415
SIH-414

ACCUMULATOR C TO COLD LEG - LOOP C C-314-691 Sht. 8
114E072 Sht. 2
114E075 Sht. 2

SIH-160
SIH-158
SIH-385
SIH-384
SIH-382

PEN 325 TO RC LOOP A C-314-691 Sht. 9
114E072 Sht. 1
114E075 Sht. 1 & 3

SIH-181
SIH-182
SIH-186
SIH-183

PEN 325 TO RC LOOP B C-314-691 Sht. 9
114E072 Sht. 1
114E075 Sht. 1 & 3

SIH-457
SIH-456
SIH-177
SIH-176
SIH-173

Description/Stubber

Drawing(s)

PEN 322 TO RC LOOP A

C-314-691 Sht. 11
114E072 Sht. 1
114E075 Sht. 1 & 3

SIH-189 SIH-464
SIH-394 SIH-398
SIH-435 SIH-399
SIH-193 SIH-196
SIH-397 SIH-400

PEN 322 TO RC LOOP B

C-314-691 Sht. 12
114E072 Sht. 1
114E075 Sht. 1 & 3

SIH-187
SIH-425
SIH-202
SIH-426
SIH-427
SIH-206
SIH-412
SIH-410
SIH-429
SIH-205
SIH-411

PEN 227 TO RC LOOP B

C-314-691 Sht. 12
114E072 Sht. 1
114E075 Sht. 1 & 3

SIH-209
SIH-167
SIH-409

PEN 227 TO RC LOOP C

C-314-691 Sht. 13
114E072 Sht. 1
114E075 Sht. 1 & 3

SIH-402
SIH-221
SIH-403
SIH-225
SIH-404

BORON INJECTION PUMPS TO
PEN 426

C-314-691 Sht. 14
114E075 Sht. 2

SIH-138

Description/Snubber

Drawing(s)

BORON INJECTION TANK TO
PEN 426

C-314-691 Sht. 14
114E075 Sht. 2

SIH-130
SIH-4011
SIH-132
SIH-133
SIH-134

BORON FROM PEN 426 TO LOOP A

C-314-691 Sht. 15
114E075 Sht. 1

SIH-465
SIH-463
SIH-438

BORON FROM PEN 426 TO LOOP B

C-314-691 Sht. 16
114E075 Sht. 1

SIH-4028
SIH-434
SIH-459

BORON FROM PEN 426 TO LOOP C

C-314-691 Sht. 17
114E075 Sht. 1

SIH-444
SIH-445
SIH-443
SIH-447

HIGH HEAD SAFETY INJECTION
FROM PEN 222 TO B COLD LEG

C-314-691 Sht. 18
114E075 Sht. 1

SIH-338
SIH-339
SIH-458

HIGH HEAD SAFETY INJECTION
FROM PEN 222 TO A COLD LEG

C-314-691 Sht. 19
114E075 Sht. 1

SIH-440
SIH-437
SIH-320
SIH-436

Description/Snubber

Drawing(s)

HIGH HEAD SAFETY INJECTION FROM
PEN 222 TO C COLD LEG

C-314-691 Sht. 20
114E075 Sht. 1

SIH-4029
SIH-348

HIGH HEAD SAFETY INJECTION FROM
PEN 415 TO B HOT LEG

C-314-691 Sht. 22
114E075 Sht. 1

SIH-452

HIGH HEAD SAFETY INJECTION FROM
PEN 415 TO C HOT LEG

C-314-691 Sht. 23
114E075

SIH-296
SIH-299
SIH-366
SIH-432 (DOUBLE)
SIH-380

HIGH HEAD SAFETY INJECTION FROM
PEN 412 TO B HOT LEG

C-314-691 Sht. 25
114E075 Sht. 1

SIH-248
SIH-453
SIH-246
SIH-245
SIH-454

HIGH HEAD SAFETY INJECTION
FROM PEN 412 TO A HOT LEG

C-314-691 Sht. 26
114E075 Sht. 1

SIH-433
SIH-462
SIH-461

Description/Snubber

Drawing(s)

BORON INJECTION
RECIRCULATING LINE

C-314-691 Sht. 28
114E075 Sht. 1

SIH-1235

SIH-1192	DE-SI-009
SIH-1208	DE-SI-053
SIH-1209	DE-SI-053
SIH-1212	DE-SI-053
SIH-1217	DE-SI-008
SIH-1226	DE-SI-004
SIH-1230	DE-SI-053
SIH-1231	DE-SI-008
SIH-1232	DE-SI-053
SIH-1283	DE-SI-060
SIH-1284	DE-SI-060
SIH-1285	DE-SI-051
SIH-1288	DE-SI-051
SIH-1289	DE-SI-061
SIH-1290	DE-SI-061
SIH-1294	DE-SI-060
SIH-1295	DE-SI-050
SIH-1301	DE-SI-054
SIH-1302	DE-SI-063
SIH-1303	DE-SI-063
SIH-1305	DE-SI-054
SIH-1306	DE-SI-054
SIH-1308	DE-SI-065
SIH-1309	DE-SI-065
SIH-1313	DE-SI-061
SIH-1314	DE-SI-061
SIH-1316	DE-SI-064
SIH-1319	DE-SI-066
SIH-1320	DE-SI-066
SIH-1321	DE-SI-065
SIH-1322	DE-SI-065
SIH-1323	DE-SI-065
SIH-1325	DE-SI-066
SIH-1329	DE-SI-066
SIH-1330	DE-SI-066
SIH-1332	DE-SI-068
SIH-1340	DE-SI-064
SIH-1341	DE-SI-066
SIH-1344	DE-SI-069
SIH-1345	DE-SI-069
SIH-1346	DE-SI-064

<u>Description/Snubber</u>	<u>Drawing(s)</u>
SIH-1348	DE-SI-064
SIH-1352	DE-SI-066
SIH-1353	DE-SI-064
SIH-1367	DE-SI-067
SIH-1368	DE-SI-067
SIH-1369	DE-SI-067
SIH-1370	DE-SI-067
SIH-1372	DE-SI-067
SIH-1402	DE-SI-064
SIH-1403	DE-SI-064
SIH-1404	DE-SI-064
SIH-1406	DE-SI-009
SIH-1407	DE-SI-064
SIH-1409	DE-SI-009
SIH-1424	DE-SI-062
SIH-1425	DE-SI-062
SIH-1426	DE-SI-062
SIH-1427	DE-SI-062
SIH-1428	DE-SI-062

REACTOR BUILDING SPRAY SYSTEM (SP)

SPRAY PUMP B TO PEN 303	C-314-661 Sht. 1 D-302-661
SPH-4005	
SPH-127	
SPH-128	
SPH-129	
SPH-130	
SPH-131	
SPH-132	
SPH-133	
SPH-135	
SPH-134	
SPH-136	
SPH-137	
SPH-138	
SPH-139	

Description/Snubber

Drawing(s)

SPRAY PUMP A TO PEN 401

C-314-661 Sht. 2 & Sht. 3
D-302-661

SPH-4003
SPH-082
SPH-083
SPH-084
SPH-085
SPH-086
SPH-4004
SPH-087
SPH-089
SPH-088
SPH-090
SPH-092
SPH-093
SPH-094
SPH-095
SPH-252
SPH-251
SPH-249
SPH-250

8" FLOW TEST LINE FROM 10"
PUMP A AND B DISCHARGE TO
RWST

C-314-661 Sht. 4
D-302-661

SPH-105
SPH-109
SPH-108
SPH-110

SPRAY PUMP A SUCTION

C-314-661 Sht. 5
D-302-661

SPH-291
SPH-294
SPH-305
SPH-304
SPH-302
SPH-111

SPRAY PUMP B SUCTION

C-314-661 Sht. 6
D-302-661

SPH-288
SPH-283
SPH-297
SPH-123
SPH-121

<u>Description/Snubber</u>	<u>Drawing(s)</u>
RWST TO SPRAY PUMP A AND B SUCTION	C-314-661 Sht. 7 D-302-661
SPH-248	
SPH-119	
SPH-118	
SPH-117	
SPH-116	
SPH-115	
SPH-114	
SPH-113	
SPH-120	
PEN 401 TO 10" HEADER	C-314-661 Sht. 8 D-302-661
SPH-266	
SPH-258	
10" HEADER TO A SPRAY RINGS	C-314-661 Sht. 9 D-302-661
SPH-4006 / INACCESSIBLE	
SPH-126 / FOR FUNCTIONAL	
10" HEADER TO B SPRAY RINGS	C-314-661 Sht. 13 E-302-661
SPH-300 INACCESSIBLE FOR FUNCTIONAL	
SPH-1021	DE-SP-009
SPH-1023	DE-SP-009
SPH-1030	DE-SP-005
SPH-1031	DE-SP-005
SPH-1032	DE-SP-005
SPH-1055	SE-SP-004

SERVICE WATER SYSTEM (SW)

SW TO AND FROM CC HX A	C-314-251 Sht. 1 D-302-222
SWH-099	

Description/Snubber

Drawing(s)

SW TO AND FROM CC HX B

C-314-251 Sht. 2
D-302-222

SWH-103

LOOP A RETURN FROM PEN 305
TO 412'0"

C-314-251 Sht. 5
D-302-222
D-302-851

SWH-125
SWH-130

SW BOOSTER PUMP B DISCHARGE
TO PEN 403

C-314-251 Sht. 7
D-302-222

SWH-089
SWH-078
SWH-077
SWH-016
SWH-030
SWH-090
SWH-007
SWH-005
SWH-093

LOOP B RETURN FROM PEN 102
TO EL 412'0"

C-314-251 Sht. 8
D-302-222

SWH-021
SWH-032
SWH-031
SWH-047
SWH-035
SWH-036
SWH-040
SWH-064
SWH-065
SWH-067
SWH-066

Description/Snubber

Drawing(s)

PEN 403 TO RBCU 1B and 2B

C-314-251 Sht. 11
D-302-222

SWH-4019
SWH-4020

SERVICE WATER PUMP DISCHARGE LINE

C-314-251 Sht. 17
D-302-221

SWH-081
SWH-083

HVAC CHILLED WATER SYSTEM (VU)

VUH-245
VUH-246
VUH-273
VUH-302

SE-VU-012
SE-VU-011
SE-VU-007
SE-VU-006

WASTE DISPOSAL LOOP "B"
CROSSOVER PIPE DRAIN

C-314-731 Sht. 1
114E077 Sht. 1

RCH-221
RCH-223
RCH-222

BLDG. RB SYSTEM RH

CODE CLASS 1 EXAM PERIOD 1

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
413	RHH-176	12	"A" Loop	Variable Spring Hanger
413	RHH-264	12	"A" Loop	Variable Spring Hanger

BLDG. RB SYSTEM RH

CODE CLASS 1 EXAM PERIOD 1

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
424	RHH-182	12	Press - "AA" Gallery	

BLDG. RB SYSTEM SI
 CODE CLASS 1 EXAM PERIOD 1

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
427	SIH-152	12	"A" Loop	Variable Spring Hanger
429	SIH-185	6	"A" Loop	
424	SIH-195	6	"A" Loop	Variable Spring Hnager
424	SIH-266	2	"A" Loop	
425	SIH-267	2	"A" Loop	
425	SIH-268	2	"A" Loop	
425	SIH-269	2	"A" Loop	
424	SIH-395	6	"A" Loop	Variable Spring Hanger
432	SIH-422	6	"A" Loop	Variable Spring Hanger
431	SIH-439	2	"A" Loop	Variable Spring Hanger

BLDG. RB SYSTEM SI

CODE CLASS 2 EXAM PERIOD 1

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
429	SIH-184	6	"A" Loop	
433	SIH-174	6	"A" Loop	

BLDG. RB SYSTEM SI

CODE CLASS 1 EXAM PERIOD 1

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
423	SIH-139	2	Press "A" Gallery	
423	SIH-140	2	Press "A" Gallery	

BLDG. RB SYSTEM SI
CODE CLASS 1 EXAM PERIOD 1

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
423	SIH-197	2	"Press- Press"- "A" Gallery	
423	SIH-199	2	"Press- Press"- "A" Gallery	
423	SIH-211	2	"Press- Press"- "A" Gallery	
423	SIH-212	2	"Press- Press"- "A" Gallery	
423	SIH-213	2	"Press- Press"- "A" Gallery	
424	SIH-214	2	"Press- Press"- "A" Gallery	

BLDG. RB SYSTEM SI
 CODE CLASS 1 EXAM PERIOD 1

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
424	SIH-215	2	"Press- Press"- "A" Gallery	
424	SIH-217	2	"Press- Press"- "A" Gallery	
422	SIH-253	2	"Press- Press"- "A" Gallery	
422	SIH-254	2	"Press- Press"- "A" Gallery	
422	SIH-297	2	"Press" "AA" Gallery	
423	SIH-298	2	"Press" "AA" Gallery	
423	SIH-352	2	"Press- Press "A" Gallery	

BLDG. RB SYSTEM SI

CODE CLASS 1 EXAM PERIOD 1

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
423	SIH-353	2	"Press- Press"- "A" Gallery	
424	SIH-364	2	"Press- Press"- "A" Gallery	
424	SIH-365	2	"Press- Press"- "A" Gallery	

BLDG. RB SYSTEM SI

CODE CLASS 2 EXAM PERIOD 1

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
426	SIH-180	6	Press A Gallery	

BLDG. RB SYSTEM CS

CODE CLASS 1 EXAM PERIOD 1

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
421	CSH-370	3	"A" Loop	Variable Spring Hanger
429	CSH-794	1 1/2	"A" Loop	
423	CSH-884	2	"A" Loop	
426	CSH-886	2	"A" Loop	
423	CSH-982	2	"A" Loop	Variable Spring Hanger
418	CSH-4037	3	"A" Loop	Variable Spring Hanger
418	CSH-4038	3	"A" Loop	Variable Spring Hanger
441	CSH-887	2	"A" Loop	
451	CSH-888	2	"A" Loop	
452	CSH-891	2	"A" Loop	
452	CSH-981	2	"A" Loop	
433	CSH-904	3/4	"A" Loop	
437	CSH-903	3/4	"A" Loop	
433	CSH-997	3/4	"A" Loop	Variable Spring Hanger

BLDG. RB SYSTEM CS

CODE CLASS 1 EXAM PERIOD 1

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
484	CSH-871	2	Pressurizer	Variable Spring Hanger
452	CSH-983	2	Pressurizer	

BLDG. RB SYSTEM CS

CODE CLASS 3 EXAM PERIOD 1

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
436	XHE-009 Excess Letdown Heat Exchanger Support (2)	10	36-02	ISI CGE-2-1150

BLDG. RB SYSTEM RC
 CODE CLASS 1 EXAM PERIOD 1

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
431	RCH-004	14	"A" Loop	Variable Spring Hanger
432	RCH-015	3	"A" Loop	
432	RCH-016	3	"A" Loop	
432	RCH-017	3	"A" Loop	
433	RCH-231	2	"A" Loop	
438	RCH-236	2	"A" Loop	Variable Spring Hanger
438	RCH-237	3	"A" Loop	Variable Spring Hanger
424	RCH-166	4	"A" Loop	Variable Spring Hanger
429	RCH-174	4	"A" Loop	
429	RCH-175	4	"A" Loop	
445	RCH-176	4	"A" Loop	
445	RCH-177	4	"A" Loop	
447	RCH-178	4	"A" Loop	
447	RCH-180	4	"A" Loop	Variable Spring Hanger
430	RCH-4027	1	"A" Loop	
439	RCH-208	4	"A" Loop	
438	RCH-209	4	"A" Loop	Variable Spring Hanger
438	RCH-210	4	"A" Loop	
438	RCH-213	4	"A" Loop	Variable Spring Hanger
438	RCH-026	3/4	"A" Loop	
438	RCH-027	3/4	"A" Loop	

BLDG. RB SYSTEM RC
 CODE CLASS 1 EXAM PERIOD 1

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
433	RCH-231	2	"A" Loop	
438	RCH-236	2	"A" Loop	Variable Spring Hanger
438	RCH-237	3	"A" Loop	Variable Spring Hanger
439	RCH-317	4	"A" Loop	
439	RCH-318	4	"A" Loop	
432	RCH-334	4	"A" Loop	
465	RCH-338	1	"A" Loop	Snubber
466	RCH-341	1	"A" Loop	
473	RCH-342	1	"A" Loop	
474	RCH-345	1	"A" Loop	Snubber
475	RCH-351	1	"A" Loop	
481	RCH-352	1	"A" Loop	
481	RCH-353	1	"A" Loop	
481	RCH-354	1	"A" Loop	
481	RCH-356	1	"A" Loop	
476	RCH-357	1	"A" Loop	
476	RCH-361	1	"A" Loop	
476	RCH-362	1	"A" Loop	

BLDG. RB SYSTEM RC
 CODE CLASS 1 EXAM PERIOD 1

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
476	RCH-363	1	"A" Loop	
476	RCH-364	1	"A" Loop	
481	RCH-366	1	"A" Loop	
412	XPP-30A Reactor Coolant Pump Supports (3)	31	"A" Loop	ISI CGE-1-5100

BLDG. RE SYSTEM RC

CODE CLASS 1 EXAM PERIOD 1

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
482	RCH-035	6	Pressurizer	Variable Spring Hanger
477	RCH-049	6	Pressurizer	
477	RCH-050	6	Pressurizer	
480	RCH-093	6	Pressurizer	
480	RCH-094	6	Pressurizer	
480	RCH-095	6	Pressurizer	
464	RCH-189	4	Pressurizer	Variable Spring Hanger
484	RCH-195	4	Pressurizer	
484	RCH-196	4	Pressurizer	
464	RCH-202	4	Pressurizer	Variable Spring Hanger
447	RCH-290	4	Pressurizer	Variable Spring Hanger
465	RCH-336	1	Pressurizer	Snubber
465	RCH-337	1	Pressurizer	Snubber
465	RCH-339	1	Pressurizer	

BLDG. RB SYSTEM RC

CODE CLASS 1 EXAM PERIOD 1

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
431	RCH-002	14	Pressurizer	Variable Spring Hanger
482	RCH-034	6	Pressurizer	Variable Spring Hanger
465	RCH-374	1	Pressurizer	Variable Spring Hanger
465	RCH-375	1	Pressurizer	Variable Spring Hanger

BLDG. RB SYSTEM MS
CODE CLASS 2 EXAM PERIOD 1

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
505	MSH-1643	32	"A" Loop	

BLDG. RB SYSTEM MS

CODE CLASS 2 EXAM PERIOD 1

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
440	MSH-297	32	Press-"AA" Gallery	
490	MSH-001	32	Press-"AA" Gallery	

BLDG. RB SYSTEM CC
 CODE CLASS 2 EXAM PERIOD 1

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
413	CCH-421	6	"Press- Press"- "A" Gallery	
413	CCH-422	6	"Press- Press"- "A" Gallery	
423	CCH-458	6	"Press- Press"- "A" Gallery	
421	CCH-461	6	"Press- Press"- "A" Gallery	
414	CCH-460	6	"Press- Press"- "A" Gallery	
423	CCH-459	6	"Press- Press"- "A" Gallery	
417	CCH-471	6	"Press- Press"- "A" Gallery	
421	CCH-4040	6	"Press- Press"- "A" Gallery	Snubber
438	CCH-429	6	"Press- Press"- "A" Gallery	
438	CCH-430	6	"Press- Press"- "A" Gallery	

BLDG. _____ RB _____ SYSTEM _____ CC _____

CODE CLASS _____ 2 _____ EXAM PERIOD _____ 1 _____

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
438	CCH-468	6	"Press- Press"- "A" Gallery	
439	CCH-467	6	"Press- Press"- "A" Gallery	
448	CCH-432	6	"Press- Press"- "A" Gallery	
450	CCH-465	6	"Press- Press"- "A" Gallery	
450	CCH-424	6	"Press- Press"- "A" Gallery	
450	CCH-425	6	"Press- Press"- "A" Gallery	
450	CCH-426	6	"Press- Press"- "A" Gallery	
450	CCH-427	6	"Press- Press"- "A" Gallery	
450	CCH-428	6	"Press- Press"- "A" Gallery	
450	CCH-466	6	"Press- Press"- "A" Gallery	

BLDG. RB SYSTEM CC

CODE CLASS 2 EXAM PERIOD 1

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
450	CCH-470	6	"Press- Press"- "A" Gallery	
425	CCH-457	6	"Press- "AA" Gallery	
450	CCH-463	6	"Press- "AA" Gallery	
450	CCH-454	8	"Press- "AA" Gallery	
433	CCH-455	6	Press"- "A" Gallery	
448	CCH-405	6	"Press- "AA" Gallery	Snubber

BLDG. _____ RB _____ SYSTEM _____ CC _____

CODE CLASS _____ 3 _____ EXAM PERIOD _____ 1 _____

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
423	CCH-417	6	"Press- Press"- "A" Gallery	
423	CCH-418	6	"Press- Press" "A" Gallery	
422	CCH-419	6	"Press- Press" "A" Gallery	
421	CCH-420	6	"Press- Press" "A" Gallery	
421	CCH-462	6	"Press- Press" "A" Gallery	
449	CCH-431	6	"Press- Press" "A" Gallery	Snubber
450	CCH-469	6	"Press- Press" "A" Gallery	
423	CCH-416	6	"Press- "A" Gallery	
450	CCH-464	6	"Press- "A" Gallery	

BLDG. RB SYSTEM CC

CODE CLASS 3 EXAM PERIOD 1

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
423	CCH-402	6	Press-"AA" Gallery	
425	CCH-456	6	Press-"AA" Gallery	
433	CCH-406	6	Press-"AA" Gallery	
448	CCH-404	6	Press-"AA" Gallery	Snubber
450	CCH-403	6	Press-"AA" Gallery	
450	CCH-423	6	Press-"AA" Gallery	

BLDG. RB SYSTEM CC

CODE CLASS 3 EXAM PERIOD 1

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
450	CCH-453	8	"AA"-B Gallery	Snubber
449	CCH-401	8	"AA"-B Gallery	
450	CCH-1713	8	"AA"-B Gallery	
449	CCH-415	6	"AA"-B Gallery	
449	CCH-448	8	A-B Gallery	
450	CCH-4003	6	A-B Gallery	
449	CCH-413	6	A-"BB" Gallery	
449	CCH-414	6	A-"BB" Gallery	

BLDG. RB SYSTEM CC

CODE CLASS 3 EXAM PERIOD 1

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
449	CCH-441	6	"BB"-C Gallery	

BLDG. _____ RB _____ SYSTEM _____ SW _____

CODE CLASS _____ 2 _____ EXAM PERIOD _____ 1 _____

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
492	SWH-170	16	"Press-Press" A Gallery	
493	SWH-150	16	"Press-Press" A Gallery	
494	SWH-149	16	"Press-Press" A Gallery	
507	SWH-174	10	"Press-Press" A Gallery	
509	SWH-144	16	"Press-Press" A Gallery	
512	SWH-145	10	"Press-Press" A Gallery	
512	SWH-146	10	"Press-Press" A Gallery	
513	SWH-175	10	"Press-Press" A Gallery	
516	SWH-176	10	"Press-Press" A Gallery	
516	SWH-147	10	"Press-Press" A Gallery	
516	SWH-148	10	"Press-Press" A Gallery	

BLDG. RB SYSTEM CS

CODE CLASS 1 EXAM PERIOD 2

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
426	CSH-918	3	"B" Loop	Variable Spring Hanger
433	CSH-995	3/4	"B" Loop	Variable Spring Hanger
413	CSH-219	3	"AA"-B Gallery	Variable Spring Hanger
438	CSH-848	3/4"	"B" Loop	

BLDG. RB SYSTEM CS

CODE CLASS 3 EXAM PERIOD 2

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
436	XHE-009 Excess Letdown Heat Exchanger Support (2)	10	36-02	ISI CGE-2-1150

BLDG. RB SYSTEM CS

CODE CLASS 2 EXAM PERIOD 2

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
412	XHE-003 Regenerative Heat Exchanger Supports (3)	11 1/4	12-01NNE	ISI CGE-2-1120

BLDG. RB SYSTEM RC
 CODE CLASS 1 EXAM PERIOD 2

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
433	RCH-127	2	"B" Loop	
432	RCH-133	3	"B" Loop	
437	RCH-137	2 1/2	"B" Loop	
438	RCH-139	2 1/2	"B" Loop	Variable Spring Hanger
433	RCH-142	2	"B" Loop	
432	RCH-247	3	"B" Loop	
432	RCH-251	3	"B" Loop	
438	RCH-257	3	"B" Loop	Variable Spring Hanger
432	RCH-262	3	"B" Loop	
432	RCH-265	3	"B" Loop	
466	RCH-340	1	"B" Loop	
438	RCH-123	3/4	"B" Loop	
412	XPP-30B Reactor Coolant Pump Supports (3)	31	"B" Loop	ISI CGE-1-5100

BLDG. RB SYSTEM RH
CODE CLASS 2 EXAM PERIOD 2

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
425	RHH-191	12	"AA"-R Gallery	
425	RHH-192	12	"AA"-B Gallery	

BLDG. RB SYSTEM SI
 CODE CLASS 1 EXAM PERIOD 2

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
431	SIH-207.	6	"B" Loop	Variable Spring Hanger
431	SIH-208	6	"B" Loop	Variable Spring Hanger
425	SIH-316	2	"B" Loop	
425	SIH-317	2	"B" Loop	
431	SIH-429	6	"B" Loop	Snubber
414	SIH-143	12	A-"BB" Gallery	
417	SIH-145	12	A-"BB" Gallery	
427	SIH-147	12	A-"BB" Gallery	
425	SIH-175	6	"AA"-B Gallery	
425	SIH-312	2	"AA"-B Gallery	
424	SIH-313	2	A-B Gallery	

BLDG. _____ RB _____ SYSTEM _____ SI _____
 CODE CLASS _____ 1 _____ EXAM PERIOD _____ 2 _____

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
425	SIH-315	2	A-B Gallery	Variable Spring Hanger
427	SIH-392	12	A-"BB" Gallery	
424	SIH-396	6	"AA"-B Gallery	
427	SIH-420	12	"AA"-B Gallery	
424	SIH-449	2	A-B Gallery	
425	SIH-442	2	A-B Gallery	

BLDG. _____ RB _____ SYSTEM _____ SI _____

CODE CLASS _____ 2 _____ EXAM PERIOD _____ 2 _____

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
421	SIH-179	6	"AA"-B Gallery	
424	SIH-192	6	"AA"-B Gallery	Variable Spring Hanger
424	SIH-393	6	"AA"-B Gallery	Variable Spring Hanger
414	SIH-188	6	A-B Gallery	
422	SIH-1188	6	A-B Gallery	
424	SIH-198	6	A-B Gallery	
426	SIH-178	6	A-B Gallery	
424	SIH-200	6	A-"BB" Gallery	

BLDG. RB SYSTEM SI
CODE CLASS 2 EXAM PERIOD 2

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
428	SIH-201	6	A-"BB" Gallery	
426	SIH-210	6	A-"BB" Gallery	

BLDG. RB SYSTEM FW
CODE CLASS 2 EXAM PERIOD 2

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
439	FWH-335	18	"AA"-B Gallery	
449	FWH-384	18	"AA"-B Gallery	Variable Spring Hanger

BLDG. RB SYSTEM FW

CODE CLASS 2 EXAM PERIOD 2

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
453	FWH-007	18	"B" Loop	Variable Spring Hanger

BLDG. RB SYSTEM IA

CODE CLASS 2 EXAM PERIOD 2

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
421	IAH-1015	6	A-B Gallery	

BLDG. RB SYSTEM SW
CODE CLASS 2 EXAM PERIOD 2

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
487	SWH-177	16	A-B Gallery	
492	SWH-178	16	A-B Gallery	
492	SWH-179	16	A-B Gallery	
499	SWH-180	16	A-B Gallery	
499	SWH-181	16	A-B Gallery	
499	SWH-182	16	A-B Gallery	

BLDG. RB SYSTEM SW

CODE CLASS 2 EXAM PERIOD 2

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
490	SWH-191	16	"AA"-B Gallery	
495	SWH-240	16	"AA"-B Gallery	
495	SWH-192	16	A-B Gallery	
514	SWH-4009	10	A-B Gallery	
495	SWH-193	16	A-B Gallery	
502	SWH-194	16	A-"BB" Gallery	
502	SWH-195	16	A-"BB" Gallery	
502	SWH-196	16	A-"BB" Gallery	

BLDG. RB SYSTEM SW
 CODE CLASS 2 EXAM PERIOD 2

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
505	SWH-197	16	A-"BB" Gallery	
512	SWH-198	10	A-"BB" Gallery	
512	SWH-199	10	A-"BB" Gallery	
513	SWH-189	10	A-"BB" Gallery	
516	SWH-232	10	A-"BB" Gallery	
516	SWH-190	10	A-"BB" Gallery	
514	SWH-4008	10	A-"BB" Gallery	
514	SWH-4025	10	A-"BB" Gallery	
514	SWH-4026	10	A-"BB" Gallery	
516	SWH-4028	10	A-"BB" Gallery	

BLDG. RB SYSTEM CC
 CODE CLASS 2 EXAM PERIOD 2

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
449	CCH-452	8	"AA"-B Gallery	
438	CCH-447	8	A-B Gallery	
449	CCH-4000	6	A-B Gallery	
449	CCH-1710	16	A-B Gallery	
449	CCH-446	6	A-"BB" Gallery	
449	CCH-412	6	A-"BB" Gallery	

BLDG. RB SYSTEM CC
 CODE CLASS 3 EXAM PERIOD 2

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
423	CCH-417	6	"Press- Press"- "A" Gallery	
423	CCH-418	6	"Press- Press" "A" Gallery	
422	CCH-419	6	"Press- Press" "A" Gallery	
421	CCH-420	6	"Press- Press" "A" Gallery	
421	CCH-462	6	"Press- Press" "A" Gallery	
449	CCH-431	6	"Press- Press" "A" Gallery	Snubber
450	CCH-469	6	"Press- Press" "A" Gallery	
423	CCH-416	6	"Press- "A" Gallery	
450	CCH-464	6	"Press- "A" Gallery	

BLDG. RB SYSTEM CC

CODE CLASS 3 EXAM PERIOD 2

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
423	CCH-402	6	Press-"AA" Gallery	
425	CCH-456	6	Press-"AA" Gallery	
433	CCH-406	6	Press-"AA" Gallery	
448	CCH-404	6	Press-"AA" Gallery	Snubber
450	CCH-403	6	Press-"AA" Gallery	
450	CCH-423	6	Press-"AA" Gallery	

BLDG. RB SYSTEM CC
 CODE CLASS 3 EXAM PERIOD 2

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
450	CCH-453	8	"AA"-B Gallery	Snubber
449	CCH-401	8	"AA"-B Gallery	
450	CCH-1713	8	"AA"-B Gallery	
449	CCH-415	6	"AA"-B Gallery	
449	CCH-448	8	A-B Gallery	
450	CCH-4003	6	A-B Gallery	
449	CCH-413	6	A-"BB" Gallery	
449	CCH-414	6	A-"BB" Gallery	

BLDG. RB SYSTEM CC

CODE CLASS 3 EXAM PERIOD 2

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
449	CCH-441	6	"BB"-C Gallery	

BLDG. RB SYSTEM RH

CODE CLASS 1 EXAM PERIOD 3

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
419	RHH-197	12	"C" Loop	Variable Spring Hanger

BLDG. RB SYSTEM RH
CODE CLASS 2 EXAM PERIOD 3

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
427	RHH-276	12	B-C Gallery	Variable Spring Hanger
427	RHH-277	12	B-C Gallery	Variable Spring Hanger
427	RHH-275	12	B-"CC" Gallery	Variable Spring Hanger

BLDG. RB SYSTEM RH
CODE CLASS 1 EXAM PERIOD 3

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
419	RHH-200	12	B-"CC" Gallery	
420	RHH-271	12	B-"CC" Gallery	

BLDG. RB SYSTEM MS
CODE CLASS 2 EXAM PERIOD 3

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
505	MSH-1645	32	"C" Loop	

BLDG. RB SYSTEM MS
CODE CLASS 2 EXAM PERIOD 3

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
440	MSH-298	32	"BB"-C Gallery	
440	MSH-299	32	B-"CC" Gallery	
490	MSH-011	32	B-"CC" Gallery	
490	MSH-006	32	"BB"-C Gallery	

BLDG. RB SYSTEM FW

CODE CLASS 2 EXAM PERIOD 3

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
450	FWH-002	18	"C" Loop	Variable Spring Hanger
439	FWH-005	18	"C" Loop	Variable Spring Hanger

BLDG. RB SYSTEM FW
 CODE CLASS 2 EXAM PERIOD 3

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
440	FWH-340	18	"BB"-C Gallery	
450	FWH-004	18	"BB"-C Gallery	
453	FWH-003	18	"BB"-C Gallery	
453	FWH-333	18	"BB"-C Gallery	
450	FWH-006	18	B-C Gallery	Variable Spring Hanger
453	FWH-334	18	B-C Gallery	

BLDG. RB SYSTEM SI
CODE CLASS 1 EXAM PERIOD 3

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
421	SIH-224	6	"C" Loop	Variable Spring Hanger
446	SIH-383	12	"C" Loop	Variable Spring Hanger
431	SIH-431	6	"C" Loop	Variable Spring Hanger
438	SIH-161	12	"C" Gallery	
438	SIH-162	12	"C" Gallery	
446	SIH-430	6	"C" Gallery	
422	SIH-255	2	Encore Pit	
421	SIH-256	2	Encore Pit	
421	SIH-257	2	Encore Pit	
421	SIH-258	2	Encore Pit	
421	SIH-259	2	Encore Pit	
421	SIH-356	2	Encore Pit	

BLDG. RB SYSTEM SI

CODE CLASS 1 EXAM PERIOD 3

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
421	SIH-357	2	Encore Pit	
421	SIH-358	2	Encore Pit	
422	SIH-359	2	Encore Pit	
421	SIH-360	2	Encore Pit	
423	SIH-367	2	Encore Pit	
421	SIH-368	2	Encore Pit	
421	SIH-369	2	Encore Pit	
421	SIH-370	2	Encore Pit	
421	SIH-371	2	Encore Pit	
422	SIH-372	2	Encore Pit	

BLDG. RB SYSTEM SI
CODE CLASS 1 EXAM PERIOD 3

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
422	SIH-375	2	Encore Pit	
422	SIH-376	2	Encore Pit	
422	SIH-413	2	Encore Pit	
423	SIH-441	2	Encore Pit	
423	SIH-448	2	Encore Pit	

BLDG. RB SYSTEM SI
CODE CLASS 1 EXAM PERIOD 3

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
414	SIH-169	12	"BB"-C Gallery	
414	SIH-170	12	"BB"-C Gallery	Variable Spring Hanger

BLDG. RB SYSTEM SI
CODE CLASS 2 EXAM PERIOD 3

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
414	SIH-261	6	"BB"-C Gallery	Snubber
413	SIH-409	6	"BB"-C Gallery	
424	SIH-203	6	"BB"-C Gallery	
426	SIH-408	6	"BB"-C Gallery	
421	SIH-216	6	B-C Gallery	
421	SIH-218	6	B-C Gallery	
421	SIH-401	6	B-C Gallery	
421	SIH-424	6	B-"CC" Gallery	

BLDG. RB SYSTEM SI
 CODE CLASS 1 EXAM PERIOD 3

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
435	SIH-387	12	"BB"-C Gallery	
421	SIH-401	6	B-"CC" Gallery	
421	SIH-405	6	B-"CC" Gallery	
424	SIH-406	6	"BB"-C Gallery	
424	SIH-407	6	"BB"-C Gallery	
421	SIH-446	2	B-"CC" Gallery	

BLDG. RB SYSTEM CS
 CODE CLASS 1 EXAM PERIOD 3

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
425	CSH-866	2	"C" Loop	Variable Spring Hanger
425	CSH-877	2	"C" Loop	
425	CSH-878	2	"C" Loop	
418	CSH-941	2	"C" Loop	Variable Spring Hanger
414	CSH-944	1	"C" Loop	Variable Spring Hanger
414	CSH-946	1	"C" Loop	Variable Spring Hanger
433	CSH-854	3/4	"C" Loop	
438	CSH-856	3/4	"C" Loop	
438	CSH-989	3/4	"C" Loop	Snubber
437	CSH-990	3/4	"C" Loop	
421	CSH-919	3	"C" Gallery	
426	CSH-980	2	"C" Gallery	Variable Spring Hanger

BLDG. RB SYSTEM CS

CODE CLASS 1 EXAM PERIOD 3

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
423	CSH-879	2	Encore Pit	
423	CSH-880	2	Encore Pit	
423	CSH-881	2	Encore Pit	

BLDG. RB SYSTEM CS

CODE CLASS 3 EXAM PERIOD 3

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
436	XHE-009 Excess Letdown Heat Exchanger Support (2)	10	36-02	ISI CGE-2-1150

BLDG. RB SYSTEM RC

CODE CLASS 1 EXAM PERIOD 3

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
432	RCH-152	3	"C" Loop	
438	RCH-158	3	"C" Loop	Variable Spring Hanger
438	RCH-159	2 1/2	"C" Loop	Variable Spring Hanger
420	RCH-165	4	"C" Loop	Variable Spring Hanger
420	RCH-168	4	"C" Loop	
432	RCH-269	3	"C" Loop	
432	RCH-276	3	"C" Loop	
433	RCH-4004	2	"C" Loop	Variable Spring Hanger
436	RCH-4010	2	"C" Loop	Variable Spring Hanger
437	RCH-149	3/4	"C" Loop	
437	RCH-157	3/4	"C" Loop	
431	RCH-002	14	Pressurizer	Variable Spring Hanger
482	RCH-034	6	Pressurizer	Variable Spring Hanger
412	XPP-30C Reactor Coolant Pump Supports (3)	31	"C" Loop	ISI CGE-1-5100

BLDG. RB SYSTEM RC
 CODE CLASS 1 EXAM PERIOD 3

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
420	RCH-169	4	Encore Pit	
420	RCH-170	4	Encore Pit	
420	RCH-171	4	Encore Pit	
420	RCH-172	4	Encore Pit	
464	RCH-347	1	Encore Pit	<i>variable Spring Hanger</i>
462	RCH-4021	1	Encore Pit	
461	RCH-4022	1	Encore Pit	
457	RCH-4023	1	Encore Pit	
452	RCH-4024	1	Encore Pit	
445	RCH-4025	1	Encore Pit	
447	RCH-4026	1	Encore Pit	

BLDG. RB SYSTEM MS
CODE CLASS 2 EXAM PERIOD 3

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
505	MSH-1645	32	"C" Loop	

BLDG. RB SYSTEM AC
CODE CLASS 2 EXAM PERIOD 3

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
445	ACH-1001	6	"BB"-C Gallery	
439	ACH-1002	6	"BB"-C Gallery	
437	ACH-1004	6	"BB"-C Gallery	
437	ACH-1005	6	"BB"-C Gallery	
439	ACH-1009	6	"BB"-C Gallery	
441	ACH-1010	6	"BB"-C Gallery	
437	ACH-1011	6	"BB"-C Gallery	
439	ACH-1012	6	"BB"-C Gallery	
437	ACH-1013	6	"BB"-C Gallery	
438	ACH-1034	6	"BB"-C Gallery	

BLDG. RB SYSTEM AC
CODE CLASS 2 EXAM PERIOD 3

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
438	ACH-1035	6	"BB"-C Gallery	

BLDG. RB SYSTEM CC
CODE CLASS 2 EXAM PERIOD 3

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
449	CCH-407	6	"BB"-C Gallery	
449	CCH-408	6	"BB"-C Gallery	
421	CCH-4041	6	Encore Pit	
421	CCH-4042	6	Encore Pit	

BLDG. RB SYSTEM CC

CODE CLASS 2 EXAM PERIOD 3

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
449	CCH-409	6	"BB"-C Gallery	
449	CCH-410	6	"BB"-C Gallery	
449	CCH-411	6	"BB"-C Gallery	

BLDG. RB SYSTEM CC

CODE CLASS 3 EXAM PERIOD 3

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
423	CCH-417	6	"Press- Press"- "A" Gallery	
423	CCH-418	6	"Press- Press" "A" Gallery	
422	CCH-419	6	"Press- Press" "A" Gallery	
421	CCH-420	6	"Press- Press" "A" Gallery	
421	CCH-462	6	"Press- Press" "A" Gallery	
449	CCH-431	6	"Press- Press" "A" Gallery	Snubber
450	CCH-469	6	"Press- Press" "A" Gallery	
423	CCH-416	6	"Press- "A" Gallery	
450	CCH-464	6	"Press- "A" Gallery	

BLDG. RB SYSTEM CC

CODE CLASS 3 EXAM PERIOD 3

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
423	CCH-402	6	Press-"AA" Gallery	
425	CCH-450	6	Press-"AA" Gallery	
433	CCH-406	6	Press-"AA" Gallery	
448	CCH-404	6	Press-"AA" Gallery	Snubber
450	CCH-403	6	Press-"AA" Gallery	
450	CCH-423	6	Press-"AA" Gallery	

BLDG. RB SYSTEM CC

CODE CLASS 3 EXAM PERIOD 3

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
450	CCH-453	8	"AA"-B Gallery	Snubber
449	CCH-401	8	"AA"-B Gallery	
450	CCH-1713	8	"AA"-B Gallery	
449	CCH-415	6	"AA"-B Gallery	
449	CCH-448	8	A-B Gallery	
450	CCH-4003	6	A-B Gallery	
449	CCH-413	6	A-"BB" Gallery	
449	CCH-414	6	A-"BB" Gallery	

BLDG. RB SYSTEM CC

CODE CLASS 3 EXAM PERIOD 3

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
449	CCH-441	6	"BB"-C Gallery	

BLDG. RB SYSTEM SW
 CODE CLASS 2 EXAM PERIOD 3

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
499	SWH-183	10	"BB"-C Gallery	
510	SWH-184	10	"BB"-C Gallery	
510	SWH-233	10	"BB"-C Gallery	
512	SWH-185	10	"BB"-C Gallery	
512	SWH-234	10	"BB"-C Gallery	
512	SWH-235	10	"BB"-C Gallery	
512	SWH-236	10	"BB"-C Gallery	
516	SWH-186	10	"BB"-C Gallery	
516	SWH-188	10	"BB"-C Gallery	Variable Spring Hanger

BLDG. RB SYSTEM SW
CODE CLASS 2 EXAM PERIOD 3

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
514	SWH-4007	10	"BB"-C Gallery	
516	SWH-4000	10	"BB"-C Gallery	
512	SWH-237	10	B-C Gallery	
516	SWH-238	10	B-C Gallery	

BLDG. RB SYSTEM SW
CODE CLASS 2 EXAM PERIOD 3

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
502	SWH-171	10	Encore Pit	
513	SWH-172	10	Encore Pit	
516	SWH-173	10	Encore Pit	

BLDG. RB SYSTEM SP
 CODE CLASS 2 EXAM PERIOD 3

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
477	SPH-265	8	A-Press. Gallery	Variable Spring Hanger
500	SPH-264	10	A-Press. Gallery	
516	SPH-263	10	A-Press. Gallery	
521	SPH-262	10	A-Press. Gallery	
534	SPH-257	10	A-Press. Gallery	Variable Spring Hanger
539	SPH-256	8	A-Press. Gallery	
551	SPH-254	6	A-Press. Gallery	
551	SPH-253	6	A-Press. Gallery	
571	SPH-245	6	A-Press. Gallery	
578	SPH-125	6	A-Press. Gallery	
518	SPH-277	10	A-B Gallery	
521	SPH-276	10	A-B Gallery	
523	SPH-261	10	A-B Gallery	

BLDG. RB SYSTEM SP

CODE CLASS 2 EXAM PERIOD 3

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
523	SPH-274	10	A-B Gallery	
523	SPH-275	10	A-B Gallery	
527	SPH-259	10	A-B Gallery	
527	SPH-260	10	A-B Gallery	
527	SPH-272	10	A-B Gallery	
527	SPH-273	10	A-B Gallery	
534	SPH-271	10	A-B Gallery	
539	SPH-270	8	A-B Gallery	
551	SPH-268	6	A-B Gallery	
551	SPH-269	6	A-B Gallery	
590	SPH-144	6	A-B Gallery	

BLDG. RB SYSTEM SP
 CODE CLASS 2 EXAM PERIOD 3

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
477	SPH-278	10	A-BB Gallery	
480	SPH-279	10	A-BB Gallery	
480	SPH-280	10	A-BB Gallery	
493	SPH-281	8	A-BB Gallery	
493	SPH-282	10	A-BB Gallery	
571	SPH-246	6	N.W. Dome 273°	
571	SPH-140	6	N.W. Dome 275°	
577	SPH-247	6	N.W. Dome 273°	
573	SPH-298	6	S.W. Dome 226°	
573	SPH-299	6	S.W. Dome 231°	
579	SPH-166	6	1/2° Lower Spray Ring	

BLDG. RB SYSTEM SP
 CODE CLASS 2 EXAM PERIOD 3

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
577	SPH-217	6	1/2° Lower Spray Ring	
579	SPH-167	6	15° Lower Spray Ring	
577	SPH-218	6	15° Lower Spray Ring	
579	SPH-168	6	30° Lower Spray Ring	
577	SPH-219	6	30° Lower Spray Ring	
577	SPH-220	6	40° Lower Spray Ring	
579	SPH-169	6	40° Lower Spray Ring	
579	SPH-170	6	60° Lower Spray Ring	
577	SPH-221	6	60° Lower Spray Ring	
579	SPH-171	6	75° Lower Spray Ring	
577	SPH-222	6	75° Lower Spray Ring	
579	SPH-172	6	90 1/2° Lower Spray Ring	

BLDG. RB SYSTEM SP
 CODE CLASS 2 EXAM PERIOD 3

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
577	SPH-223	6	90 1/2° Lower Spray Ring	
579	SPH-173	6	105° Lower Spray Ring	
577	SPH-224	6	105° Lower Spray Ring	
579	SPH-174	6	120° Lower Spray Ring	
577	SPH-225	6	120° Lower Spray Ring	
579	SPH-175	6	136° Lower Spray Ring	
577	SPH-226	6	136° Lower Spray Ring	
579	SPH-176	6	150° Lower Spray Ring	
577	SPH-227	6	150° Lower Spray Ring	
579	SPH-177	6	165° Lower Spray Ring	
577	SPH-228	6	165° Lower Spray Ring	

BLDG. RB SYSTEM SP
 CODE CLASS 2 EXAM PERIOD 3

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
579	SPH-178	6	180 1/2° Lower Spray Ring	
577	SPH-229	6	180 1/2° Lower Spray Ring	
579	SPH-179	6	195° Lower Spray Ring	
577	SPH-230	6	195° Lower Spray Ring	
579	SPH-180	6	210° Lower Spray Ring	
577	SPH-192	6	210° Lower Spray Ring	
579	SPH-181	6	226° Lower Spray Ring	
577	SPH-208	6	226° Lower Spray Ring	
579	SPH-182	6	240° Lower Spray Ring	
577	SPH-209	6	255° Lower Spray Ring	
577	SPH-211	6	269° Lower Spray Ring	
579	SPH-183	6	269 1/2° Lower Spray Ring	

BLDG. RB SYSTEM SP
 CODE CLASS 2 EXAM PERIOD 3

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
579	SPH-160	6	270° Lower Spray Ring	
579	SPH-161	6	285° Lower Spray Ring	
577	SPH-212	6	285° Lower Spray Ring	
579	SPH-162	6	300° Lower Spray Ring	
577	SPH-213	6	300° Lower Spray Ring	
579	SPH-163	6	316° Lower Spray Ring	
577	SPH-214	6	316° Lower Spray Ring	
579	SPH-164	6	330° Lower Spray Ring	
577	SPH-215	6	330° Lower Spray Ring	
579	SPH-165	6	345° Lower Spray Ring	
577	SPH-216	6	345° Lower Spray Ring	

BLDG. RB SYSTEM SP

CODE CLASS 2 EXAM PERIOD 3

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
590	SPH-147	6	1° Middle Spray Ring	
590	SPH-197	6	1° Middle Spray Ring	
590	SPH-198	6	21° Middle Spray Ring	
590	SPH-148	6	23 1/2° Middle Spray Ring	
590	SPH-149	6	46° Middle Spray Ring	
590	SPH-199	6	46° Middle Spray Ring	
590	SPH-150	6	69 1/2° Middle Spray Ring	
590	SPH-200	6	69° Middle Spray Ring	
590	SPH-151	6	91° Middle Spray Ring	
590	SPH-201	6	91° Middle Spray Ring	
590	SPH-202	6	113° Middle Spray Ring	
590	SPH-152	6	113 1/2° Middle Spray Ring	

BLDG. RB SYSTEM SP
 CODE CLASS 2 EXAM PERIOD 3

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
590	SPH-153	6	136° Middle Spray Ring	
590	SPH-203	6	136° Middle Spray Ring	
590	SPH-204	6	159° Middle Spray Ring	
590	SPH-154	6	159 1/2° Middle Spray Ring	
590	SPH-155	6	181° Middle Spray Ring	
590	SPH-205	6	181° Middle Spray Ring	
590	SPH-156	6	203 1/2° Middle Spray Ring	
590	SPH-207	6	224° Middle Spray Ring	
590	SPH-157	6	226° Middle Spray Ring	
590	SPH-159	6	270° Middle Spray Ring	
590	SPH-193	6	271° Middle Spray Ring	

BLDG. RB SYSTEM SP

CODE CLASS 2 EXAM PERIOD 3

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
590	SPH-194	6	293° Middle Spray Ring	
590	SPH-145	6	316° Middle Spray Ring	
590	SPH-195	6	316° Middle Spray Ring	
590	SPH-146	6	339° Middle Spray Ring	
590	SPH-196	6	339° Middle Spray Ring	

LDG. DG SYSTEM DG

CODE CLASS 2 EXAM PERIOD 1

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
468	DGH-001	36	Room 63-01	
468	DGH-002	36	Room 63-02	
478	DGH-005	36	Roof	
478	DGH-006	36	Roof	
454	DGH-015	20	Room 36-04	
454	DGH-017	20	Room 36-04	
454	DGH-016	20	Room 36-03	
454	DGH-018	20	Room 36-03	

BLDG. IB SYSTEM EF

CODE CLASS 2 EXAM PERIOD 1

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
414	EFH-4046	6	Room 12-02E	
414	EFH-4020	8	IB 12-02E	

BLDG. IB SYSTEM FW
CODE CLASS 2 EXAM PERIOD 1

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
455	FWH-127	18	PAI 36-02	Variable Spring Hanger
442	FWH-179	18	PAI 36-02	
453	FWH-182	18	PAI 36-02	
453	FWH-345	18	PAI 36-02	
455	FWH-353	18	PAI 36-02	Snubber
440	FWH-440	8	PAI 36-02	Snubber
437	FWH-459	8	PAI 36-02	Snubber
455	FWH-130	18	IB-36-02 North	Variable Spring Hanger
455	FWH-132	18	IB-36-02 North	Snubber
455	FWH-133	18	IB-36-02 North	Snubber
455	FWH-136	18	IB-36-02 North	Snubber
453	FWH-137	18	IB-36-02 North	Snubber
453	FWH-138	18	IB-36-02 North	Snubber
455	FWH-146	18	IB-36-02 North	Variable Spring Hanger

BLDG. _____ IB _____ SYSTEM _____ FW _____

CODE CLASS _____ 2 _____ EXAM PERIOD _____ 1 _____

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
455	FWH-210	18	IB 36-02 North	Snubber
453	FWH-343	18	IB 36-02E North	
453	FWH-344	18	IB 36-02E North	
455	FWH-380	18	IB 36-02 North	Snubber
453	FWH-377	18	IB 36-02 Northwest	Snubber
453	FWH-168	18	IB 36-02 Northwest	Variable Spring Hanger
453	FWH-375	18	IB 36-02 Northwest	Snubber
455	FWH-139	18	IB 36-02 Center	Variable Spring Hanger
441	FWH-363	18	IB 36-02 Center	Snubber
453	FWH-140	18	IB 36-02 Center	Snubber
453	FWH-141	18	IB 36-02 Center	Snubber
448	FWH-195	18	IB 36-02 Center	Snubber
453	FWH-170	18	IB 36-02 Centerwest	Snubber

BLDG. IB SYSTEM FW

CODE CLASS 2 EXAM PERIOD 1

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
453	FWH-172	18	IB 36-02 Centerwest	Variable Spring Hanger
450	FWH-173	18	IB 36-02 Centerwest	Snubber
453	FWH-382	18	IB 36-02 Centerwest	Snubber
442	FWH-129	18	IB 36-02 South	Snubber
448	FWH-194	18	IB 36-02 South	
448	FWH-196	18	IB 36-02 South	Variable Spring Hanger
448	FWH-197	18	IB 36-02 South	Snubber
448	FWH-198	18	IB 36-02 South	Snubber
448	FWH-199	18	IB 36-02 South	Variable Spring Hanger
439	FWH-200	18	IB 36-02 South	Variable Spring Hanger
442	FWH-201	18	IB 36-02 South	Snubber

LDG. IB SYSTEM FW
 CODE CLASS 2 EXAM PERIOD 1

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
446	FWH-202	18	IB 36-02 South	Snubber
440	FWH-203	30	IB 36-02 South	
440	FWH-204	30	IB 36-02 South	
440	FWH-206	30	IB 36-02 South	Snubber
440	FWH-214	30	IB 36-02 South	
442	FWH-215	18	IB 36-02 South	Snubber
446	FWH-216	18	IB 36-02 South	Snubber
443	FWH-225	8	IB 36-02 South	Snubber
448	FWH-226	8	IB 36-02 South	Variable Spring Hanger
448	FWH-227	8	IB 36-02 South	Snubber
448	FWH-228	8	IB 36-02 South	Snubber
446	FWH-364	8	IB 36-02 South	Snubber

BLDG. IB SYSTEM FW
 CODE CLASS 2 EXAM PERIOD 1

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
446	FWH-365	8	IB 36-02 South	Snubber
440	FWH-366	30	IB 36-02 South	Snubber
440	FWH-369	30	IB 36-02 South	
440	FWH-370	30	IB 36-02 South	Snubber
453	FWH-142	18	IB 36-02 Southwest	Snubber
453	FWH-143	18	IB 36-02 Southwest	Snubber
453	FWH-144	18	IB 36-02 Southwest	Variable Spring Hanger
439	FWH-145	18	IB 36-02 Southwest	Variable Spring Hanger
453	FWH-147	18	IB 36-02 Southwest	Variable Spring Hager
439	FWH-148	18	IB 36-02 Southwest	Snubber

LDG. IB SYSTEM FW
 CODE CLASS 2 EXAM PERIOD 1

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
446	FWH-149	18	IB 36-02 Southwest	Snubber
440	FWH-150	30	IB 36-02 Southwest	
439	FWH-175	18	IB 36-02 Southwest	Variable Spring Hanger
442	FWH-176	18	IB 36-02 Southwest	Snubber
440	FWH-178	30	IB 36-02 Southwest	
453	FWH-218	18	IB 36-02 Southwest	Snubber
448	FWH-220	8	IB 36-02 Southwest	Variable Spring Hanger
443	FWH-221	8	IB 36-02 Southwest	Snubber
443	FWH-222	8	IB 36-02 Southwest	Snubber
453	FWH-223	8	IB 36-02 Southwest	Variable Spring Hanger

JDG. IB SYSTEM FW

CODE CLASS 2 EXAM PERIOD 1

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
443	FWH-229	8	IB 36-02 Southwest	Snubber
443	FWH-230	8	IB 36-02 Southwest	Snubber
441	FWH-355	18	IB 36-02 Southwest	Snubber
447	FWH-356	8	IB 36-02 Southwest	Snubber
447	FWH-357	8	IB 36-02 Southwest	Snubber
443	FWH-358	8	IB 36-02 Southwest	Snubber
453	FWH-359	8	IB 36-02 Southwest	Snubber
447	FWH-360	8	IB 36-02 Southwest	Snubber
447	FWH-361	8	IB 36-02 Southwest	Snubber
443	FWH-362	8	IB 36-02 Southwest	Snubber
449	FWH-372	8	IB 36-02 Southwest	Snubber

BLDG. IB SYSTEM FW

CODE CLASS 2 EXAM PERIOD 1

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
446	FWH-378	18	IB 36-02 Southwest	Snubber
450	FWH-379	18	IB 36-02 Southwest	Snubber
448	FWH-189	18	IB 36-02 Southeast	Snubber
448	FWH-190	18	IB 36-02 Southeast	Snubber
440	FWH-207	20	IB 36-02 Southwest	Variable Spring Hanger
448	FWH-348	18	IB 36-02 Southeast	
448	FWH-349	18	IB 36-02 Southeast	Snubber
448	FWH-368	18	IB 36-02 Southeast	Snubber

BLDG. IB SYSTEM MS
 CODE CLASS 2 EXAM PERIOD 1

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
436	MSH-050	32	IB 36-02 Piping Area	
441	MSH-062	14	IB 36-02 Piping Area	
440	MSH-068	32	IB 36-02 Piping Area	
439	MSH-073	32	IB 36-02 Piping Area	
439	MSH-077	32	IB 36-02 Piping Area	
440	MSH-079	32	IB 36-02 Piping Area	
440	MSH-084	32	IB 36-02 Piping Area	
440	MSH-087	32	IB 36-02 Piping Area	
440	MSH-088	32	IB 36-02 Piping Area	
440	MSH-090	32	IB 36-02 Piping Area	

BLDG. IB SYSTEM MS
 CODE CLASS 2 EXAM PERIOD 1

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
440	MSH-091	32	IB 36-02 Piping Area	
440	MSH-096	32	IB 36-02E Piping Area	
440	MSH-100	32	IB 36-02E Piping Area	
448	MSH-114	30	IB 36-02 Piping Area	
453	MSH-115	30	IB 36-02 Piping Area	Variable Spring Hanger
454	MSH-117	30	IB 36-02 Piping Area	Snubber
453	MSH-118	30	IB 36-02 Piping Area	Snubber
454	MSH-119	30	IB 36-02 Piping Area	Variable Spring Hanger
453	MSH-120	30	IB 36-02 Piping Area	
448	MSH-122	30	IB 36-02 Piping Area	
454	MSH-123	30	IB 36-02 Piping Area	Variable Spring Hanger
453	MSH-124	30	IB 36-02 Piping Area	Snubber

BLDG. IB SYSTEM MS
 CODE CLASS 2 EXAM PERIOD 1

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
454	MSH-125	30	IB 36-02 Piping Area	Snubber
453	MSH-126	30	IB 36-02 Piping Area	Snubber
453	MSH-127	30	IB 36-02 Piping Area	Variable Spring Hanger
453	MSH-128	30	IB 36-02 Piping Area	
453	MSH-132	30	IB 36-02 Piping Area	Variable Spring Hanger
454	MSH-134	30	IB 36-02 Piping Area	Snubber
454	MSH-135	30	IB 36-02 Piping Area	Snubber
454	MSH-136	30	IB 36-02 Piping Area	Variable Spring Hanger
453	MSH-137	30	IB 36-02 Piping Area	
454	MSH-139	30	IB 36-02 Piping Area	
453	MSH-140	30	IB 36-02 Piping Area	Snubber
454	MSH-141	30	IB 36-02 Piping Area	Snubber

BLDG. IB SYSTEM MS
 CODE CLASS 2 EXAM PERIOD 1

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
454	MSH-142	30	IB 36-02 Piping Area	Snubber
453	MSH-143	30	IB 36-02 Piping Area	Variable Spring Hanger
453	MSH-144	30	IB 36-02 Piping Area	
440	MSH-148	32	IB 36-02W Piping Area	
440	MSH-156	24	IB 36-02 Piping Area	
440	MSH-173	8	IB 36-02 Piping Area	Variable Spring Hanger
453	MSH-176	12	IB 36-02 Piping Area	
452	MSH-177	12	IB 36-02 Piping Area	
455	MSH-178	12	IB 36-02 Piping Area	Variable Spring Hanger
461	MSH-179	12	IB 36-02 Piping Area	
441	MSH-250	24	IB 36-02 Piping Area	Snubber
454	MSH-303	30	IB 36-02 Piping Area	Snubber
440	MSH-300	32	IB 36-02 Piping Area	

BLDG. IB SYSTEM MS
 CODE CLASS 2 EXAM PERIOD 1

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
440	MSH-304	32	IB 36-02 Piping Area	
447	MSH-305	30	IB 36-02 Piping Area	
447	MSH-306	30	IB 36-02 Piping Area	
440	MSH-308	32	IB 36-02 Piping Area	
454	MSH-310	30	IB 36-02 Piping Area	Snubber
440	MSH-089	32	36-02 East Pene	
440	MSH-103	32	36-02 East Pene	
440	MSH-104	32	36-02 East Pene	
440	MSH-105	33	36-02 East Pene	
440	MSH-106	32	36-02 East Pene	
455	MSH-108	32	36-02 East Pene	Variable Spring Hanger

BLDG. IB SYSTEM MS

CODE CLASS 2 EXAM PERIOD 1

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
455	MSH-111	32	36-02 East Pene	Variable Spring Hanger
455	MSH-185	12	36-02 East Pene	Variable Spring Hanger
461	MSH-187	12	36-02 East Pene	
439	MSH-1644	32	36-02 East Pene	
440	MSH-181	8	36-02 East Pene	Variable Spring Hanger
464	MSH-271	14	Roof	
422	MSH-273	14	12-10 Pump Room	
422	MSH-360	14	12-10 Pump Room	
417	MSH-274	14	236-01 Equip. Slab	
428	MSH-275	14	236-01 Equip. Slab	Variable Spring Hanger
433	MSH-276	14	236-01 Equip. Slab	
433	MSH-277	14	236-01 Equip. Slab	

BLDG. IB SYSTEM LR

CODE CLASS 2 EXAM PERIOD 1

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
437	LRH-1002	8	PAI 36-02	
437	LRH-1003	8	PAI 36-02	
438	LRH-1001	8	PAI 36-02	

BLDG. IB SYSTEM MB

CODE CLASS 2 EXAM PERIOD 1

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
442	MBH-031	12	IB 36-02 East	Snubber
448	MBH-032	12	IB 36-02 East	Snubber
461	MBH-033	12	IB 36-02 East	
440	MBH-027	8	IB 36-02 East Center	Snubber
440	MBH-028	8	IB 36-02 East Center	Snubber
440	MBH-043	8	IB 36-02 East Center	Variable Spring Hanger
442	MBH-029	8	IB 36-02 North Center	Snubber
461	MBH-030	8	IB 36-02 North Center	
454	MBH-042	8	IB 36-02 North Center	Snubber
440	MBH-021	8	IB 36-02 Center	Snubber
442	MBH-022	12	IB 36-02 Center	Snubber
443	MBH-023	12	IB 36-02 Center	Snubber

BLDG. IB SYSTEM MB

CODE CLASS 2 EXAM PERIOD 1

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
453	MBH-024	12	IB 36-02 Center	Variable Spring Hanger
461	MBH-025	12	IB 36-02 Center	
467	MBH-026	12	Roof	Snubber

BLDG. AB SYSTEM MS

CODE CLASS 2 EXAM PERIOD 1

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
455	MSH-053	32	36-01 West Pene	Variable Spring Hanger
455	MSH-056	32	36-01 West Pene	Variable Spring Hanger
440	MSH-059	32	36-01 West Pene	
440	MSH-060	32	36-01 West Pene	
440	MSH-061	32	36-01 West Pene	
440	MSH-065	32	36-01 West Pene	
456	MSH-170	12	36-01 West Pene	Variable Spring Hanger
482	MSH-172	12	63-01 West Pene	
463	MSH-358	12	63-03 West Pene	
463	MSH-359	12	63-03 West Pene	
481	MSH-4000	12	63-03 West Pene	

BLDG. AB SYSTEM FW

CODE CLASS 2 EXAM PERIOD 1

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
439	FWH-153	18	PAA 36-01 Center	
439	FWH-154	18	PAA 36-01 South	
439	FWH-155	18	PAA 36-01 South	Snubber
439	FWH-158	18	PAA 36-01 South	Snubber
439	FWH-159	18	PAA 36-01 South	Variable Spring Hanger
439	FWH-160	18	PAA 36-01 South	Snubber
439	FWH-161	18	PAA 36-01 South	Snubber
443	FWH-162	18	PAA 36-01 South	Snubber
444	FWH-163	20	PAA 36-01 South	Snubber
453	FWH-164	18	PAA 36-01	Variable Spring Hanger
439	FWH-373	18	PAA 36-01	Snubber
453	FWH 374	18	PAA 36-01	Snubber
453	FWH 376	18	PAA 36-01	Snubber

BLDG. TB SYSTEM MS

CODE CLASS 2 EXAM PERIOD 1

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
454	MSH-340	30	36-02 NE Piping Area	Snubber
454	MSH-341	30	36-02 NE Piping Area	Snubber

BLDG. TB SYSTEM FW

CODE CLASS 2 EXAM PERIOD 1

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
447	FWH-134	30	TB 36-02NE	

BLDG. EG SYSTEM SW
 CODE CLASS 2 EXAM PERIOD 1

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
429	SWH-245	8	27-04	
434	SWH-247	14	27-04	
433	SWH-249	8	27-04	
434	SWH-253	8	27-04	
429	SWH-246	8	27-03	
433	SWH-250	8	27-03	
434	SWH-252	8	27-03	
434	SWH-255	8	27-03	
436	SWH-248	8	36-04	
437	SWH-254	8	36-04	
436	SWH-251	8	36-03	
437	SWH-256	8	36-03	

BLDG. AB SYSTEM AS

CODE CLASS 3 EXAM PERIOD 1

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
445	ASH-077	6	36-30	
449	ASH-076	6	36-31	

BLDG. IB SYSTEM AS

CODE CLASS 3 EXAM PERIOD 1

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
445	ASH-081	6	36-02 (Above door IB-304)	
445	ASH-082	6	36-02 (Above door IB-304)	
445	ASH-083	6	36-02 (West)	Snubber
445	ASH-084	6	36-02 (West)	Snubber

BLDG. EG SYSTEM DG

CODE CLASS 3 EXAM PERIOD 1

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
439	DGH-1190	12	36-03	
449	DGH-1192	12	36-03	
439	DGH-1191	12	36-04	
449	DGH-1193	12	36-04	

BLDG. AB SYSTEM CC

CODE CLASS 3 EXAM PERIOD 1

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
415	CCH-270	8	12-11	
420	CCH-037	8	12-11	
423	CCH-130	8	12-11	

BLDG. IB SYSTEM CC
 CODE CLASS 3 EXAM PERIOD 1

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
412	XPP-1A "A" Component Cooling Water Pump	20	12-02	
412	XPP-1B "B" Component Cooling Water Pump	20	12-02	
412	XPP-1C "C" Component Cooling Water Pump	20	12-02	

BLDG. IB SYSTEM EF
CODE CLASS 3 EXAM PERIOD 1

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
411	EFH-094	10	12-02E	
411	EFH-095	10	12-02E	
411	EFH-096	10	12-02E	
411	EFH-097	6	12-02E	
411	EFH-098	6	12-02E	
411	EFH-099	6	12-02E	
414	EFH-100	6	12-02E	Variable Spring Hanger
414	EFH-4007	6	12-02E	
414	EFH-4025	6	12-02E	
418	EFH-4023	6	12-02E	
419	EFH-101	8	12-02E	Snubber
419	EFH-102	8	12-02E	
419	EFH-4024	6	12-02E	
419	EFH-4027	6	12-02E	
419	EFH-4045	8	12-02E	
420	EFH-109	6	12-02E	
420	EFH-110	6	12-02E	
421	EFH-4028	8	12-02 (West)	
422	EFH-103	8	12-02 (West)	

BLDG. IB SYSTEM EF
 CODE CLASS 3 EXAM PERIOD 1

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
426	EPH-104	8	12-02 (West)	
411	EPH-4026	10	12-10	
413	EPH-4022	8	12-10	
414	EPH-107	8	12-10	Variable Spring Hanger
414	EPH-4019	8	12-10	Snubber
414	EPH-4031	8	12-10	
423	EPH-106	8	236-01	
426	EPH-105	8	236-01	

BLDG. IB SYSTEM VU

CODE CLASS 3 EXAM PERIOD 1

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
418	VUH-1404	6	12-02 (West-South)	
419	VUH-1476	6	12-02 (Center-South)	
419	VUH-1477	6	12-02 (Center-South)	
422	VUH-1403	6	12-02 (West-South)	
423	VUH-1474	6	12-02 (Center	
415	VUH-1484	6	12-12	
418	VUH-1483	6	12-12	
422	VUH-1556	6	12-12	
422	VUH-1557	6	12-12	
419	VUH-1472	6	12-13	
423	VUH-1037	24	12-13	
423	VUH-1038	24	12-13	

BLDG. EG SYSTEM EF

CODE CLASS 3 EXAM PERIOD 1

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
414	EPH-4034	10	00-01	
414	EPH-4035	10	00-01	

BLDG. IB SYSTEM EF

CODE CLASS 3 EXAM PERIOD 1

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
412	XPP-21A Emergency Feed Water Pump	6	12-02E	
412	XPP-21B Emergency Feed Water Pump	6	12-02E	
412	XPP-8 Emergency Feed Water Pump	6	12-10	

BLDG. IB SYSTEM VU
 CODE CLASS 3 EXAM PERIOD 1

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
423	VUH-1039	24	12-13	
423	VUH-1040	24	12-13	
421	VUH-1560	6	12-14	
421	VUH-1561	6	12-14	
421	VUH-1485	6	12-15	
422	VUH-1563	6	12-15	
422	VUH-1564	6	12-15	
427	VUH-1565	6	26-01	
429	VUH-1562	6	26-01	
427	VUH-1559	6	26-02	
450	VUH-1488	6	36-02 (West)	

BLDG. CB SYSTEM VU

CODE CLASS 3 EXAM PERIOD 1

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
477	VUH-1487	6	63-04	

BLDG. IB SYSTEM VU

CODE CLASS 3 EXAM PERIOD 1

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
412	XPP-48A "A" Chilled Water Pump	6	12-13C	
412	XPP-48B "B" Chilled Water Pump	6	12-13A	
412	XPP-48C "C" Chilled Water Pump	6	12-13B	

BLDG. AB SYSTEM WG

CODE CLASS 3 EXAM PERIOD 1

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
406	WGH-1709	10	00-01	
406	WGH-1710	10	00-01	
406	WGH-1711	10	00-01	

BLDG. IB SYSTEM SW

CODE CLASS 3 EXAM PERIOD 1

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
419	SWH-1145	6	12-12	
419	SWH-1147	6	12-14	
419	SWH-1148	6	12-14	
417	SWH-1146	6	12-15	
418	SWH-1144	6	12-15	

BLDG. IB SYSTEM SW
CODE CLASS 3 EXAM PERIOD 1

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
412	XPP-45A Service Water Booster Pump	12	12-02W	
412	XPP-45B Service Water Booster Pump	12	12-02W	

BLDG. SW SYSTEM SW

CODE CLASS 3 EXAM PERIOD 1

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
436	XPP-39A Service Water Pump	24	36-02	
436	XPP-39B Service Water Pump	24	36-02	
436	XPP-39C Service Water Pump	24	36-02	

BLDG. AB SYSTEM RH

CODE CLASS 3 EXAM PERIOD 1

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
412	XHE-005A Heat Exchangers Supports (2)	40	12-06	ISI CGE-2-1110
412	XHE-005B Heat Exchangers Supports(2)	40	12-05	ISI CGE-2-1110

BLDG. AB SYSTEM TR

CODE CLASS 3 EXAM PERIOD 1

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
412	XHE-015 Letdown Reheat Heat Exchanger Support (2)	9	12-27	ISI CGE-2-1140

BLDG. AB SYSTEM CS

CODE CLASS 3 EXAM PERIOD 1

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
412	XHE-014 Letdown Reheat Heat Exchanger Support (2)	22	12-12	ISI CGE-2-1130
412	XHE-011 Seal Water Heat Exchanger Support (2)	20	12-13	ISI CGE-2-1160

BLDG. AB SYSTEM CS

CODE CLASS 2 EXAM PERIOD 2

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
396	CSH-002	6	Room 88-25 Inj. Pump Room	
396	CSH-003	6	Room 85-25 Inj. Pump Room	
396	CSH-004	8	Room 88-25 Inj. Pump Room	
396	CSH-007	6	Room 88-24 Inj. Pump Room	
396	CSH-008	6	Room 88-24 Inj. Pump Room	
396	CSH-020	6	Room 88-23 Inj. Pump Room	
396	CSH-021	6	Room 88-23 Inj. Pump Room	
401	CSH-005	8	Room 00-01E Shield Slab	
406	CSH-006	8	Room 00-01W Shield Slab	

BLDG. AB SYSTEM CS
 CODE CLASS 2 EXAM PERIOD 2

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
406	CSH-128	8	Room 00-01 Shield Slab	
406	CSH-129	8	Room 00-01 Shield Slab	
401	CSH-009	8	Room 00-01 Shield Slab	
401	CSH-010	8	Room 00-01 Shield Slab	
401	CSH-011	8	Room 00-01 Shield Slab	
401	CSH-012	8	Room 00-01 Shield Slab	
401	CSH-013	8	Room 00-01 Shield Slab	
401	CSH-014	8	Room 00-01 Shield Slab	Variable Spring Hanger
401	CSH-016	8	Room 00-01 Shield Slab	
401	CSH-017	8	Room 00-01 Shield Slab	Variable Spring Hanger
401	CSH-022	8	Room 00-01 Shield Slab	

BLDG. AB SYSTEM CS
 CODE CLASS 2 EXAM PERIOD 2

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
401	CSH-023	8	Room 00-01 Shield Slab	
406	CSH-024	8	Room 00-01 Shield Slab	
406	CSH-142	8	Room 00-01 Shield Slab	
406	CSH-139	8	Room 00-01E Shield Slab	
406	CSH-124	8	Room 00-02 Shield Slab	
406	CSH-125	8	Room 00-02 Shield Slab	
406	CSH-126	8	Room 00-02 Shield Slab	
406	CSH-127	8	Room 00-02 Shield Slab	
406	CSH-001	8	Room 97-02 West Valve Area	
406	CSH-131	8	Room 97-02W Valve Area	

BLDG. AB SYSTEM CS

CODE CLASS 2 EXAM PERIOD 2

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
406	CSH-141	8	Room 97-02W Valve Area	
406	CSH-121	8	Room 97-02 Valve Area	
404	CSH-132	8	Room 97-02 Valve Area	
404	CSH-133	8	Room 97-02 Valve Area	
404	CSH-135	8	Room 97-02 Valve Area	
406	CSH-136	8	Room 97-02N Valve Area	
406	CSH-138	8	Room 97-02N Valve Area	
406	CSH-122	8	Room 05-01 Shield Slab	
406	CSH-123	8	Room 05-01 Shield Slab	

BLDG. AB SYSTEM CS

CODE CLASS 2 EXAM PERIOD 2

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
413	CSH-120	8	Room 12-05 (H/X Room)	Variable Spring Hanger
413	CSH-130	8	Room 12-06 (H/X Room)	Variable Spring Hanger
401	CSH-4024	8	Room 26-01 Shield Slab	

BLDG. AB SYSTEM CS
CODE CLASS 2 EXAM PERIOD 2

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
388	XPP-43A "A" Charging and Safety Injection Pump	6	88-25	
388	XPP-43B "B" Charging and Safety Injection Pump	6	88-25	
388	XPP-43C "C" Charging and Safety Injection Pump	6	88-25	

BLDG. AB SYSTEM IA
CODE CLASS 2 EXAM PERIOD 2

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
414	IAH-1007	6	PAA-12-01	
415	IAH-1014	6	PAA-12-01	
420	IAH-1006	6	PAA-12-01	

BLDG. AB SYSTEM RH
CODE CLASS 2 EXAM PERIOD 2

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
378	RHH-001	10	74-17 Spray Pump Room	
388	RHH-002	10	74-17 Spray Pump Room	
404	RHH-003	10	74-17 Spray Pump Room	Variable Spring Hanger
404	RHH-004	10	74-17 Spray Pump Room	Variable Spring Hanger
404	RHH-005	10	74-17 Spray Pump Room	Variable Spring Hanger
404	RHH-006	10	74-17 Spray Pump Room	Variable Spring Hanger
375	RHH-097	14	74-17 Spray Pump Room	
379	RHH-4007	10	74-17 Spray Pump Room	Variable Spring Hanger
376	RHH-4014	14	74-17 Spray Pump Room	Variable Spring Hanger
379	RHH-4013	14	74-17 Spray Pump Room	
383	RHH-035	14	74-17 Spray Pump Room	Variable Spring Hanger

BLDG. AB SYSTEM RH

CODE CLASS 2 EXAM PERIOD 2

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
376	RHH-4015	14	74-16 Spray Pump Room	Variable Spring Hanger
380	RHH-4012	14	74-16 Spray Pump Room	
379	RHH-4005	10	74-16 Spray Pump Room	Variable Spring Hanger
375	RHH-098	14	74-16 Spray Pump Room	
379	RHH-009	10	74-16 Spray Pump Room	
387	RHH-010	10	74-16 Spray Pump Room	
387	RHH-011	10	74-16 Spray Pump Room	
387	RHH-012	10	74-16 Spray Pump Room	Variable Spring Hanger

BLDG. AB SYSTEM RH

CODE CLASS 2 EXAM PERIOD 2

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
404	RHH-013	10	97-02W Valve Area	Variable Spring Hanger
404	RHH-014	10	97-02W Valve Area	Variable Spring Hanger
406	RHH-026	12	97-02E Valve Area	Variable Spring Hanger
406	RHH-027	12	97-02E Valve Area	Variable Spring Hanger
406	RHH-028	12	97-02 Valve Area	Variable Spring Hanger
399	RHH-030	14	97-02 Valve Area	Variable Spring Hanger
399	RHH-032	12	97-02 Valve Area	Variable Spring Hanger
399	RHH-033	12	97-02 Valve Area	
399	RHH-034	12	97-02 Valve Area	Variable Spring Hanger
404	RHH-067	8	97-02N Valve Area	Variable Spring Hanger
400	RHH-4016	14	97-02 Valve Area	

BLDG. AB SYSTEM RH
 CODE CLASS 2 EXAM PERIOD 2

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
397	RHH-4017	14	97-02 Valve Chamber	
410	RHH-4027	20	00-01 Shield Slab	
418	RHH-007	8	12-06 H/X Room	Variable Spring Hanger
422	RHH-008	10	12-06 H/X Room	Variable Spring Hanger
429	RHH-091	10	12-06 H/X Room	
422	RHH-093	10	12-06 H/X Room	
422	RHH-094	10	12-06 H/X Room	
422	RHH-095	10	12-06 H/X Room	Variable Spring Hanger
418	RHH-096	10	12-06 H/X Room	
423	RHH-238	10	12-06 H/X Room	
422	RHH-015	10	12-05 H/X Room	Variable Spring Hanger

BLDG. AB SYSTEM RH
 CODE CLASS 2 EXAM PERIOD 2

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
422	RHH-016	10	12-05 H/X Room	Variable Spring Hanger
422	RHH-086	10	12-05 H/X Room	
422	RHH-087	10	12-05 H/X Room	Variable Spring Hanger
418	RHH-088	8	12-05 H/X Room	
427	RHH-080	10	12-01 West Pene	
420	RHH-4037	10	12-01 West Pene	
423	RHH-4046	10	12-01 West Pene	
421	RHH-4047	10	12-01 West Pene	Variable Spring Hanger
423	RHH-4051	10	12-01 West Pene	Variable Spring Hanger

BLDG. AB SYSTEM RH
 CODE CLASS 2 EXAM PERIOD 2

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
425	RHH-023	12	West Pene South	
425	RHH-024	12	West Pene South	Variable Spring Hanger
425	RHH-025	12	West Pene South	Variable Spring Hanger
425	RHH-072	10	West Pene South	
425	RHH-073	10	West Pene South	
425	RHH-074	10	West Pene South	
423	RHH-031	12	West Pene	
420	RHH-069	10	West Pene	
420	RHH-070	10	West Pene	
416	RHH-071	10	West Pene	

BLDG. AB SYSTEM RH

CODE CLASS 2 EXAM PERIOD 2

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
427	RHH-081	10	26-01S Shield Slab	
427	RHH-082	10	26-01S Shield Slab	
429	RHH-083	10	26-01S Shield Slab	
429	RHH-084	10	26-01S Shield Slab	
428	RHH-090	10	26-01S Shield Slab	
428	RHH-4054	10	26-01SE Shield Slab	
429	RHH-085	10	293-01 Shield Slab	
429	RHH-092	10	293-01 Shield Slab	
423	RHH-4053	10	12-11 Corridor	

BLDG. AB SYSTEM RH

CODE CLASS 2 EXAM PERIOD 2

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
374	XPP-31A "A" Residual Heat Removal Pump	12	74-17	
374	XPP-31B "B" Residual Heat Removal Pump	12	74-16	

BLDG. AB SYSTEM RH

CODE CLASS 3 EXAM PERIOD 2

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
412	XHE-005A Heat Exchangers Supports (2)	40	12-06	ISI CGE-2-1110
412	XHE-005B Heat Exchangers Supports (2)	40	12-05	ISI CGE-2-1110

BLDG. IB SYSTEM RH
 CODE CLASS 2 EXAM PERIOD 2

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
421	RHH-017	12	12-02 East Pene	
425	RHH-018	12	12-02 East Pene	Variable Spring Hanger
425	RHH-019	12	12-02 East Pene	Variable Spring Hanger
425	RHH-078	10	12-02 East Pene	
425	RHH-079	10	12-02 East Pene	
413	RHH-4043	10	12-02 East Pene	Variable Spring Hanger
425	RHH-4048	10	12-02 East Pene	
425	RHH-020	12	22-01 Normal Slab	Variable Spring Hanger
425	RHH-021	12	22-01 Normal Slab	Variable Spring Hanger
425	RHH-022	12	22-01 Normal Slab	Variable Spring Hanger

BLDG. IB SYSTEM RH
CODE CLASS 2 EXAM PERIOD 2

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
425	RHH-075	10	22-01 Normal Slab	
425	RHH-076	10	22-01 Normal Slab	
425	RHH-077	10	22-01 Normal Slab	

BLDG. AB SYSTEM SI
 CODE CLASS 2 EXAM PERIOD 2

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
400	SIH-026	14	97-02S Valve Chamber	Variable Spring Hanger
400	SIH-027	14	97-02S Valve Chamber	
400	SIH-028	14	97-02S Valve Chamber	Variable Spring Hanger
400	SIH-036	14	97-02S Valve Chamber	
407	SIH-029	14	97-02 Valve Area	Variable Spring Hanger
399	SIH-066	14	97-02 Valve Area	
407	SIH-030	14	97-02N Valve Area	Variable Spring Hanger

BLDG. AB SYSTEM SI

CODE CLASS 2 EXAM PERIOD 2

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
400	SIH-050	14	97-02N Valve Area	
406	SIH-082	6	97-02N Valve Area	
406	SIH-083	6	97-02N Valve Area	
407	SIH-031	14	00-01E Shield Slab	
402	SIH-033	20	00-01 Shield Slab	
402	SIH-034	20	00-01 Shield Slab	
407	SIH-032	14	88-13S Corridor	
415	SIH-035	20	12-04 Storage Tank Area	

BLDG. _____ SWB _____ SYSTEM _____ SW _____
 CODE CLASS 2 EXAM PERIOD 2

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
427	SWH-080	24	25-03 Pipe Pit	
427	SWH-4013	24	25-03 Pipe Pit	
427	SWH-4014	24	25-03 Pipe Pit	
427	SWH-4015	30	25-03 Pipe Pit	
427	SWH-4017	24	25-03N Pipe Pit	
427	SWH-082	24	25-01 Pipe Pit	
427	SWH-4010	25	25-01 Pipe Pit	
427	SWH-084	24	25-02 Pipe Pit	
427	SWH-258	24	25-02 Pipe Pit	

BLDG. SWB SYSTEM SW

CODE CLASS 2 EXAM PERIOD 2

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
427	SWH-4011	24	25-02 Pipe Pit	
427	SWH-4012	30	25-02 Pipe Pit	
427	SWH-4016	24	25-02N Pipe Pit	

BLDG. IB SYSTEM SW

CODE CLASS 2 EXAM PERIOD 2

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
422	SWH-085	16	12-02W Equip. Room	
427	SWH-087	16	12-02W Equip. Room	
418	SWH-096	20	12-02W Equip. Room	
413	SWH-097	20	12-02W Equip. Room	
425	SWH-098	20	12-02W Equip. Room	
418	SWH-100	20	12-02W Equip. Room	
413	SWH-101	20	12-02W Equip. Room	
425	SWH-102	20	12-02W Equip. Room	

BLDG. IB SYSTEM SW
 CODE CLASS 2 EXAM PERIOD 2

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
417	SWH-114	16	12-02W Equip. Room	
415	SWH-115	16	12-02W Equip. Room	
427	SWH-069	16	12-02W Equip. Room	Variable Spring Hanger
417	SWH-116	16	12-02W Equip. Room	
417	SWH-4021	16	12-02W Equip. Room	
423	SWH-4022	16	12-02W Equip. Room	
421	SWH-212	6	12-02 Equip. Room	
421	SWH-213	6	12-02 Equip. Room	

BLDG. IB SYSTEM SW
 CODE CLASS 2 EXAM PERIOD 2

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
421	SWH-214	6	12-02 Equip. Room	
421	SWH-215	6	12-02 Equip. Room	
421	SWH-216	6	12-02 Equip. Room	
421	SWH-217	6	12-02 Equip. Room	
422	SWH-218	6	12-02 Equip. Room	
422	SWH-219	6	12-02 Equip. Room	
424	SWH-221	6	12-02 Equip. Room	

BLDG. IB SYSTEM SW
 CODE CLASS 2 EXAM PERIOD 2

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
424	SWH-222	6	12-02 Equip. Room	
424	SWH-224	6	12-02 Equip. Room	
418	SWH-225	6	12-02 Equip. Room	
424	SWH-4018	6	12-02 Equip. Room	
418	SWH-151	6	12-14 Equip. Room	
419	SWH-152	6	12-14 Equip. Room	
419	SWH-153	6	12-14 Equip. Room	

BLDG. IB SYSTEM SW
CODE CLASS 2 EXAM PERIOD 2

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
421	SWH-154	6	12-14 Chiller Room	
420	SWH-155	6	12-14 Chiller Room	
420	SWH-156	6	12-14 Chiller Room	
421	SWH-168	6	12-14 Chiller Room	
421	SWH-169	6	12-14 Chiller Room	
419	SWH-157	6	12-15 Chiller Room	
419	SWH-158	6	12-15 Chiller Room	
419	SWH-159	6	12-15 Chiller Room	
419	SWH-160	6	12-15 Chiller Room	

BLDG. IB SYSTEM SW
 CODE CLASS 2 EXAM PERIOD 2

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
421	SWH-161	6	12-15 Chiller Room	
419	SWH-162	6	12-15 Chiller Room	
420	SWH-163	6	12-15 Chiller Room	
419	SWH-164	6	12-15 Chiller Room	
420	SWH-165	6	12-15 Chiller Room	
420	SWH-166	6	12-15 Chiller Room	
419	SWH-167	6	12-15 Chiller Room	
420	SWH-200	6	12-13A Pump Room	
420	SWH-201	6	12-13A Pump Room	

BLDG. IB SYSTEM SW
 CODE CLASS 2 EXAM PERIOD 2

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
421	SWH-208	6	12-13B Pump Room	
417	SWH-209	6	12-13C Pump Room	
420	SWH-203	6	12-12 Chiller Room	
419	SWH-202	6	12-12 Chiller Room	
419	SWH-204	6	12-12 Chiller Room	
419	SWH-205	6	12-12 Chiller Room	
420	SWH-206	6	12-12 Chiller Room	
420	SWH-207	6	12-12 Pump Room	

BLDG. IB SYSTEM SW
CODE CLASS 2 EXAM PERIOD 2

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
421	SWH-210	6	12-12 Chiller Room	
421	SWH-211	6	12-12 Chiller Room	
421	SWH-220	6	12-12 Chiller Room	
457	SWH-110	16	36-02 Piping Area	
454	SWH-111	16	36-02 Piping Area	
453	SWH-112	16	36-02 Piping Area	
436	SWH-113	16	36-02 Piping Area	
436	SWH-137	16	36-02W Piping Area	

BLDG. IB SYSTEM SW
CODE CLASS 3 EXAM PERIOD 2

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
412	XPP-45A Service Water Booster Pump	12	12-02W	
412	XPP-45B Service Water Booster Pump	12	12-02W	

BLDG. SW SYSTEM SW
 CODE CLASS 3 EXAM PERIOD 2

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
436	XPP-39A Service Water Pump	24	36-02	
436	XPP-39B Service Water Pump	24	36-02	
436	XPP-39C Service Water Pump	24	36-02	

BLDG. AB SYSTEM SW

CODE CLASS 2 EXAM PERIOD 2

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
427	SWH-008	16	12-31 Valve Access	
427	SWH-020	16	12-31 Valve Access	
427	SWH-068	10	12-31 Valve Access	
427	SWH-075	16	12-31 Valve Access	
427	SWH-076	16	12-31 Valve Access	
427	SWH-079	16	12-31 Valve Access	
427	SWH-259	16	12-31 Valve Access	
427	SWH-260	16	12-31 Valve Access	
431	SWH-013	16	12-11N Corridor	
431	SWH-014	16	12-11N Corridor	

BLDG. AB SYSTEM SW
 CODE CLASS 2 EXAM PERIOD 2

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
432	SWH-033	16	12-11N Corridor	
432	SWH-034	16	12-11N Corridor	
425	SWH-015	16	12-01N West Pene.	
425	SWH-017	16	12-01N West Pene.	
425	SWH-018	16	12-01N West Pene.	
425	SWH-019	16	12-01N West Pene.	
425	SWH-022	16	12-01 West Pene.	
425	SWH-023	16	12-01 West Pene.	
425	SWH-024	16	12-01 West Pene.	
425	SWH-025	16	12-01 West Pene.	
425	SWH-026	16	12-01 West Pene.	
425	SWH-027	16	12-01 West Pene.	

BLDG. AB SYSTEM SW
 CODE CLASS 2 EXAM PERIOD 2

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
425	SWH-028	16	12-01 West Pene.	
427	SWH-029	16	12-01 West Pene.	
425	SWH-037	16	12-01 West Pene.	
425	SWH-038	16	12-01 West Pene.	
425	SWH-039	16	12-01 West Pene.	
425	SWH-061	16	12-01 West Pene.	
425	SWH-062	16	12-01 West Pene.	
427	SWH-063	16	12-01 West Pene.	
452	SWH-009	16	36-17W Corridor	
452	SWH-010	16	36-17W Corridor	
452	SWH-011	16	36-17W Corridor	

BLDG. AB SYSTEM SW

CODE CLASS 2 EXAM PERIOD 2

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
452	SWH-012	16	36-17W Corridor	
454	SWH-050	16	36-17W Corridor	
453	SWH-058	16	36-17W Corridor	
453	SWH-059	16	36-17W Corridor	
449	SWH-060	16	36-17W Corridor	
453	SWH-4003	16	36-17W Corridor	
453	SWH-4004	16	36-17W Corridor	
448	SWH-4001	16	36-17SE Corridor	
457	SWH-107	16	36-01 West Pene.	
457	SWH-108	16	36-01 West Pene.	
457	SWH-109	16	36-01 West Pene.	

BLDG. AB SYSTEM SW
 CODE CLASS 2 EXAM PERIOD 2

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
457	SWH-128	16	36-01 West Pene.	
457	SWH-129	16	36-01 West Pene.	
457	SWH-131	16	36-01 West Pene.	
457	SWH-132	16	36-01 West Pene.	
457	SWH-133	16	36-01 West Pene.	
457	SWH-134	16	36-01 West Pene.	
457	SWH-135	16	36-01 West Pene.	
457	SWH-136	16	36-01 West Pene.	
465	SWH-104	16	63-03 West Pene.	
465	SWH-105	16	63-03 West Pene.	

BLDG. AB SYSTEM SW
 CODE CLASS 2 EXAM PERIOD 2

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
465	SWH-106	16	63-03 West Pene.	
465	SWH-117	12	63-03 West Pene.	
471	SWH-118	12	63-03 West Pene.	
471	SWH-119	12	63-03 West Pene.	
471	SWH-120	12	63-03 West Pene.	
471	SWH-121	12	63-03 West Pene.	
471	SWH-122	12	63-03 West Pene.	
477	SWH-123	16	63-03 West Pene.	
465	SWH-124	16	63-03 West Pene.	
465	SWH-126	16	63-03 West Pene.	
465	SWH-127	16	63-03 West Pene.	

BLDG. AB SYSTEM SW

CODE CLASS 2 EXAM PERIOD 2

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
471	SWH-140	12	63-03 West Pene.	
471	SWH-141	12	63-03 West Pene.	
471	SWH-142	12	63-03 West Pene.	
471	SWH-143	12	63-03 West Pene.	
466	SWH-4023	12	63-03 West Pene.	
465	SWH-4024	12	63-03 West Pene.	

BLDG. FH SYSTEM SW

CODE CLASS 2 EXAM PERIOD 2

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
452	SWH-004	16	63-01S Motor Control Center	
463	SWH-003	16	63-01S Motor Control Center	
466	SWH-002	16	63-01S Motor Control Center	
489	SWH-001	16	63-01S Motor Control Center	Variable Spring Hanger
452	SWH-006	16	63-01S Motor Control Center	
489	SWH-041	16	63-01S Motor Control Center	Variable Spring Hanger

BLDG. FH SYSTEM SW
 CODE CLASS 2 EXAM PERIOD 2

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
466	SWH-042	16	63-01S Motor Control Center	
465	SWH-044	16	63-01S Motor Control Center	
465	SWH-045	12	63-01S Motor Control Center	
473	SWH-070	12	63-01S Motor Control Center	
473	SWH-071	12	63-01S Motor Control Center	
473	SWH-072	12	63-01S Motor Control Center	
473	SWH-073	12	63-01S Motor Control Center	

BLDG. FH SYSTEM SW

CODE CLASS 2 EXAM PERIOD 2

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
473	SWH-074	12	63-01S Motor Control Center	
471	SWH-091	12	63-01S Motor Control Center	
471	SWH-092	12	63-01S Motor Control Center	
471	SWH-094	12	63-01S Motor Control Center	
471	SWH-095	12	63-01S Motor Control Center	
453	SWH-046	16	36-01E Corridor Area	
462	SWH-043	16	36-01E Corridor Area	

BLDG. SYSTEM SW

CODE CLASS EXAM PERIOD

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
453	SWH-048	16	36-01E Corridor Area	
453	SWH-049	16	36-01W Pump Area	
453	SWH-051	16	36-01W Pump Area	
458	SWH-054	16	36-01W Pump Area	
453	SWH-055	16	36-01W Pump Area	
451	SWH-056	16	36-01W Pump Area	
451	SWH-057	16	36-01W Pump Area	
454	SWH-4005	16	36-01W Pump Area	

BLDG. AB SYSTEM AS

CODE CLASS 3 EXAM PERIOD 2

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
445	ASH-077	6	36-30	
449	ASH-076	6	36-31	

BLDG. IB SYSTEM AS

CODE CLASS 3 EXAM PERIOD 2

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
445	ASH-081	6	36-02 (Above door IB-304)	
445	ASH-082	6	36-02 (Above door IB-304)	
445	ASH-083	6	36-02 (West)	Snubber
445	ASH-084	6	36-02 (West)	Snubber

BLDG. EG SYSTEM DG

CODE CLASS 3. EXAM PERIOD 2

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
439	DGH-1190	12	36-03	
449	DGH-1192	12	36-03	
439	DGH-1191	12	36-04	
449	DGH-1193	12	36-04	

BLDG. AB SYSTEM CC

CODE CLASS 3 EXAM PERIOD 2

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
415	CCH-270	8	12-11	
420	CCH-037	8	12-11	
423	CCH-130	8	12-11	

BLDG. IB SYSTEM CC

CODE CLASS 3 EXAM PERIOD 2

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
412	XPF-1A "A" Component Cooling Water Pump	20	12-02	
412	XPP-1B "B" Component Cooling Water Pump	20	12-02	
412	XPP-1C "C" Component Cooling Water Pump	20	12-02	

BLDG. IB SYSTEM EF

CODE CLASS 3 EXAM PERIOD 2

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
411	EFH-094	10	12-02E	
411	EFH-095	10	12-02E	
411	EFH-096	10	12-02E	
411	EFH-097	6	12-02E	
411	EFH-098	6	12-02E	
411	EFH-099	6	12-02E	
414	EFH-100	6	12-02E	Variable Spring Hanger
414	EFH-4007	6	12-02E	
414	EFH-4025	6	12-02E	
418	EFH-4023	6	12-02E	
419	EFH-101	8	12-02E	Snubber
419	EFH-102	8	12-02E	
419	EFH-4024	6	12-02E	
419	EFH-4027	6	12-02E	
419	EFH-4045	8	12-02E	
420	EFH-109	6	12-02E	
420	EFH-110	6	12-02E	
421	EFH-4028	8	12-02 (West)	
421	EFH-103	8	12-02 (West)	

BLDG. IB SYSTEM EF

CODE CLASS 3 EXAM PERIOD 2

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
426	EFH-104	8	12-02 (West)	
411	EFH-4026	10	12-10	
413	EFH-4022	8	12-10	
414	EFH-107	8	12-10	Variable Spring Hanger
414	EFH-4019	8	12-10	Snubber
414	EFH-4031	8	12-10	
423	EFH-106	8	236-01	
426	EFH-105	8	236-01	

BLDG. IB SYSTEM EF

CODE CLASS 3 EXAM PERIOD 2

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
412	XPP-21A Emergency Feed Water Pump	6	12-02E	
412	XPP-21B Emergency Feed Water Pump	6	12-02E	
412	XPP-8 Emergency Feed Water Pump	6	12-10	

BLDG. IB SYSTEM VU
 CODE CLASS 3 EXAM PERIOD 2

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
418	VUH-1404	6	12-02 (West-South)	
419	VUH-1476	6	12-02 (Center-South)	
419	VUH-1477	6	12-02 (Center-South)	
422	VUH-1403	6	12-02 (West-South)	
423	VUH-1474	6	12-02 (Center	
415	VUH-1484	6	12-12	
418	VUH-1483	6	12-12	
422	VUH-1556	6	12-12	
422	VUH-1557	6	12-12	
419	VUH-1472	6	12-13	
423	VUH-1037	24	12-13	
423	VUH-1038	24	12-13	

BLDG. IB SYSTEM VU
 CODE CLASS 3 EXAM PERIOD 2

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
412	XPP-48A "A" Chilled Water Pump	6	12-13C	
412	XPP-48B "B" Chilled Water Pump	6	12-13A	
412	XPP-48C "C" Chilled Water Pump	6	12-13B	

BLDG. EG SYSTEM EF

CODE CLASS 3 EXAM PERIOD 2

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
414	EFH-4034	10	00-01	
414	EFH-4035	10	00-01	

BLDG. IB SYSTEM VU
CODE CLASS 3 EXAM PERIOD 2

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
423	VUH-1039	24	12-13	
423	VUH-1040	24	12-13	
421	VUH-1560	6	12-14	
421	VUH-1561	6	12-14	
421	VUH-1485	6	12-15	
422	VUH-1563	6	12-15	
422	VUH-1564	6	12-15	
427	VUH-1565	6	26-01	
429	VUH-1562	6	26-01	
427	VUH-1559	6	26-02	
450	VUH-1488	6	36-02 (West)	

BLDG. CB SYSTEM VU

CODE CLASS 3 EXAM PERIOD 2

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
477	VUH-1487	6	63-04	

BLDG. AB SYSTEM WG

CODE CLASS 3 EXAM PERIOD 2

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
406	WGH-1709	10	00-01	
406	WGH-1710	10	00-01	
406	WGH-1711	10	00-01	

BLDG. IB SYSTEM SW

CODE CLASS 3 EXAM PERIOD 2

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
419	SWH-1145	6	12-12	
419	SWH-1147	6	12-14	
419	SWH-1148	6	12-14	
417	SWH-1146	6	12-15	
418	SWH-1144	6	12-15	

BLDG. AB SYSTEM CS
 CODE CLASS 3 EXAM PERIOD 2

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
412	XHE-014 Letdown Reheat Heat Exchanger Support (2)	22	12-12	ISI CGE-2-1130
412	XHE-011 Seal Water Heat Exchanger Support (2)	20	12-13	ISI CGE-2-1160

LDG. AB SYSTEM TR

CODE CLASS 3 EXAM PERIOD 2

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
412	XHE-015 Letdown Reheat Heat Exchanger Support (2)	9	12-27	ISI CGE-2-1140

BLDG. AB SYSTEM CC

CODE CLASS 2 EXAM PERIOD 3

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
394	CCH-008	12	88-13N Corridor	
394	CCH-009	16	88-13N Corridor	
394	CCH-001	12	88-13N Corridor	Snubber
396	CCH-002	12	88-13N Corridor	
396	CCH-005	12	88-13N Corridor	
396	CCH-010	16	88-13N Corridor	
396	CCH-011	16	88-13N Corridor	
396	CCH-012	16	88-13N Corridor	

BLDG. AB SYSTEM CC

CODE CLASS 2 EXAM PERIOD 3

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
396	CCH-475	16	88-13N Corridor	
404	CCH-003	12	88-13N Corridor	
404	CCH-004	12	88-13N Corridor	
404	CCH-006	12	88-13N Corridor	Snubber
404	CCH-007	12	88-13N Corridor	
404	CCH-019	16	88-13N Corridor	Snubber
406	CCH-015	16	88-13N Corridor	
406	CCH-016	16	88-13N Corridor	
406	CCH-017	16	88-13N Corridor	

BLDG. AB SYSTEM CC

CODE CLASS 2 EXAM PERIOD 3

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
396	CCH-018	16	88-13 Corridor	
403	CCH-4000	16	88-13 Corridor	
420	CCH-287	20	12-05 HT. XGR. Room	
422	CCH-077	20	12-05 HT. XGR. Room	
422	CCH-124	20	12-05 HT. XGR. Room	
422	CCH-125	20	12-05 HT. XGR. Room	
422	CCH-158	20	12-05 HT. XGR. Room	
422	CCH-4017	20	12-05 HT. XGR. Room	Snubber
425	CCH-071	20	12-05 HT. XGR. Room	

BLDG. AB SYSTEM CC

CODE CLASS 2 EXAM PERIOD 3

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
425	CCH-155	20	12-05 HT. XGR. Room	
425	CCH-156	20	12-05 HT. XGR. Room	
425	CCH-483	20	12-05 HT. XGR. Room	
430	CCH-162	20	12-05 HT. XGR. Room	
430	CCH-289	20	12-05 HT. XGR. Room	
422	CCH-070	20	12-06 HT. XGR. Room	
425	CCH-075	20	12-06 HT. XGR. Room	
430	CCH-482	20	12-06 HT. XGR. Room	

BLDG. AB SYSTEM CC

CODE CLASS 2 EXAM PERIOD 3

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
412	CCH-476	16	12-11 Corridor	
412	CCH-477	16	12-11 Corridor	
412	CCH-4008	8	12-11 Corridor	
413	CCH-473	8	12-11 Corridor	
413	CCH-4044	16	12-11 Corridor	
413	CCH-4045	16	12-11 Corridor	
414	CCH-052	6	12-11 Corridor	
414	CCH-131	8	12-11 Corridor	
414	CCH-255	6	12-11 Corridor	

BLDG. AB SYSTEM CC

CODE CLASS 2 EXAM PERIOD 3

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
414	CCH-269	8	12-11 Corridor	
414	CCH-400	6	12-11 Corridor	
415	CCH-030	8	12-11 Corridor	
415	CCH-277	8	12-11 Corridor	
415	CCH-4020	16	12-11 Corridor	
415	CCH-4021	16	12-11 Corridor	
418	CCH-242	8	12-11 Corridor	
419	CCH-256	6	12-11 Corridor	
420	CCH-046	6	12-11 Corridor	

BLDG. AB SYSTEM CC
 CODE CLASS 2 EXAM PERIOD 3

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
420	CCH-122	20	12-11 Corridor	
420	CCH-174	20	12-11 Corridor	
420	CCH-176	20	12-11 Corridor	
420	CCH-252	8	12-11 Corridor	
420	CCH-275	8	12-11 Corridor	
420	CCH-276	8	12-11 Corridor	
420	CCH-278	8	12-11 Corridor	Snubber
420	CCH-279	8	12-11 Corridor	
421	CCH-243	6	12-11 Corridor	
422	CCH-023	16	12-11 Corridor	

BLDG. AB SYSTEM CC

CODE CLASS 2 EXAM PERIOD 3

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
422	CCH-024	16	12-11 Corridor	
422	CCH-026	16	12-11 Corridor	
422	CCH-027	16	12-11 Corridor	
422	CCH-028	8	12-11 Corridor	
422	CCH-029	8	12-11 Corridor	
422	CCH-031	8	12-11 Corridor	
422	CCH-128	8	12-11 Corridor	
422	CCH-135	16	12-11 Corridor	
422	CCH-137	16	12-11 Corridor	
422	CCH-138	16	12-11 Corridor	
422	CCH-143	16	12-11 Corridor	Snubber

BLDG. AB SYSTEM CC

CODE CLASS 2 EXAM PERIOD 3

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
422	CCH-149	16	12-11 Corridor	
422	CCH-159	20	12-11 Corridor	
422	CCH-172	20	12-11 Corridor	
422	CCH-241	8	12-11 Corridor	
422	CCH-244	6	12-11 Corridor	
422	CCH-271	8	12-11 Corridor	
422	CCH-272	8	12-11 Corridor	
422	CCH-273	8	12-11 Corridor	
422	CCH-481	16	12-11 Corridor	
413	CCH-021	16	12-11 South Corridor	

LDG. AB SYSTEM CC

CODE CLASS 2 EXAM PERIOD 3

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
419	CCH-338	16	12-11 South Corridor	
420	CCH-114	20	12-11 South Corridor	
420	CCH-115	20	12-14 South Corridor	
420	CCH-337	16	12-11 South Corridor	
422	CCH-022	16	12-11 South Corridor	
422	CCH-123	20	12-11 South Corridor	
422	CCH-136	16	12-11 South Corridor	

BLDG. AB SYSTEM CC

CODE CLASS 2 EXAM PERIOD 3

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
422	CCH-173	20	12-11 South Corridor	
422	CCH-177	20	12-11 South Corridor	
422	CCH-478	24	12-11 South Corridor	
423	CCH-140	8	12-11 South Corridor	
423	CCH-485	8	12-11 South Corridor	Snubber
415	CCH-399	20	12-11 South East Corridor	
420	CCH-175	20	12-11 South East Corridor	
422	CCH-4027	16	12-11 South East Corridor	

BLDG. AB SYSTEM CC
 CODE CLASS 2 EXAM PERIOD 3

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
423	CCH-141	8	12-11 South East Corridor	
420	CCH-118	20	12-11 East Corridor	
420	CCH-119	20	12-11 East Corridor	
420	CCH-120	20	12-11 East Corridor	
423	CCH-032	8	12-11 East Corridor	
423	CCH-033	8	12-11 East Corridor	
418	CCH-040	8	12-12 HT. XGR. Room	

BLDG. AB SYSTEM CC
 CODE CLASS 2 EXAM PERIOD 3

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
418	CCH-111	8	12-12 HT. XGR. Room	
420	CCH-038	8	12-12 HT. XGR. Room	
420	CCH-039	8	12-12 HT. XGR. Room	
420	CCH-286	8	12-12 HT. XGR. Room	
422	CCH-048	6	12-14 Evaporator Room	
422	CCH-480	6	12-14 Evaporator Room	
422	CCH-4002	6	12-14 Evaporator Room	
423	CCH-047	6	12-14 Evaporator Room	
424	CCH-132	6	12-14 Evaporator Room	

BLDG. AB SYSTEM CC

CODE CLASS 2 EXAM PERIOD 3

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
424	CCH-133	6	12-14 Evaporator Room	
424	CCH-134	6	12-14 Evaporator Room	Snubber
424	CCH-254	6	12-14 Evaporator Room	Snubber
420	CCH-112	6	12-26 Evaporator Room	
421	CCH-053	6	12-26 Evaporator Room	
421	CCH-054	6	12-26 Evaporator Room	
421	CCH-055	6	12-26 Evaporator Room	
422	CCH-257	6	12-26 Evaporator Room	
422	CCH-259	6	12-26 Evaporator Room	

BLDG. AB SYSTEM CC

CODE CLASS 2 EXAM PERIOD 3

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
422	CCH-274	8	12-26 Evaporator Room	Snubber
422	CCH-479	6	12-26 Evaporator Room	
424	CCH-260	6	12-26 Evaporator Room	
424	CCH-486	6	12-26 Evaporator Room	Snubber
422	CCH-160	16	12-29 HT. XGR. Room	
420	CCH-116	20	12-30 HT. XGR. Room	
420	CCH-288	24	12-30 HT. XGR. Room	
422	CCH-113	24	12-30 HT. XGR. Room	

BLDG. AB SYSTEM CC

CODE CLASS 2 EXAM PERIOD 3

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
422	CCH-178	20	12-30 HT. XGR. Room	
423	CCH-034	8	West Pen (South)	
423	CCH-142	8	West Pen (South)	
425	CCH-144	8	West Pen (South)	
426	CCH-145	8	West Pen (South)	
432	CCH-035	8	West Pen (South)	
433	CCH-146	8	West Pen (South)	
427	CCH-020	16	26-01 Shield Slab	

BLDG. AB SYSTEM CC
 CODE CLASS 2 EXAM PERIOD 3

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
436	CCH-072	20	36-03 Corridor Removal Area	
436	CCH-163	20	36-03 Corridor Removal Area	
448	CCH-073	20	36-03 Corridor Removal Area	
448	CCH-164	20	36-03 Corridor Removal Area	
451	CCH-074	20	36-03 Corridor Removal Area	
451	CCH-076	20	36-03 Corridor Removal Area	
451	CCH-165	20	36-03 Corridor Removal Area	

BLDG. AB SYSTEM CC

CODE CLASS 2 EXAM PERIOD 3

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
451	CCH-166	20	36-03 Corridor Removal Area	
451	CCH-078	24	36-30 Mon. Tank Room	
451	CCH-080	24	36-30 Mon. Tank Room	
451	CCH-170	20	36-30 Mon. Tank Room	
451	CCH-171	20	36-30 Mon. Tank Room	
451	CCH-290	20	36-30 Mon. Tank Room	
451	CCH-377	24	36-30 Mon. Tank Room	
451	CCH-167	20	36-31 Mon. Tank Room	

BLDG. AB SYSTEM CC

CODE CLASS 2 EXAM PERIOD 3

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
451	CCH-168	20	36-31 Mon. Pump Room	
451	CCH-339	16	36-31 Mon. Pump Room	
451	CCH-079	24	36-32 South Valve Gallery	
437	CCH-036	8	West Pen. (South)	
437	CCH-147	8	West Pen. (South)	
438	CCH-474	8	West Pen. (South)	
439	CCH-148	8	West Pen. (South)	

BLDG. IB SYSTEM CC

CODE CLASS 2 EXAM PERIOD 3

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
413	CCH-751	24	12-02 Equip. Room	
413	CCH-774	24	12-02 Equip. Room	
414	CCH-393	24	12-02 Equip. Room	
414	CCH-396	24	12-02 Equip. Room	
414	CCH-4005	24	12-02 Equip. Room	
414	CCH-4006	24	12-02 Equip. Room	
414	CCH-4007	24	12-02 Equip. Room	
415	CCH-759	20	12-02 Equip. Room	
415	CCH-762	20	12-02 Equip. Room	

BLDG. IB SYSTEM CC

CODE CLASS 2 EXAM PERIOD 3

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
415	CCH-1505	20	12-02 Equip. Room	
415	CCH-4004	24	12-02 Equip. Room	
422	CCH-319	24	12-02 Equip. Room	
422	CCH-320	24	12-02 Equip. Room	
422	CCH-321	24	12-02 Equip. Room	
422	CCH-382	24	12-02 Equip. Room	
422	CCH-383	24	12-02 Equip. Room	
422	CCH-384	24	12-02 Equip. Room	
422	CCH-385	24	12-02 Equip. Room	
422	CCH-760	24	12-02 Equip. Room	

BLDG. IB SYSTEM CC
 CODE CLASS 2 EXAM PERIOD 3

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
422	CCH-761	24	12-02 Equip. Room	
422	CCH-763	24	12-02 Equip. Room	
422	CCH-783	24	12-02 Equip. Room	
423	CCH-766	24	12-02 Equip. Room	
423	CCH-767	24	12-02 Equip. Room	Snubber
423	CCH-768	24	12-02 Equip. Room	
423	CCH-769	24	12-02 Equip. Room	
424	CCH-4014	24	12-02 Equip. Room	
425	CCH-086	24	12-02 Equip. Room	

BLDG. IB SYSTEM CC

CODE CLASS 2 EXAM PERIOD 3

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
425	CCH-087	24	12-02 Equip. Room	
425	CCH-088	24	12-02 Equip. Room	
425	CCH-091	24	12-02 Equip. Room	
425	CCH-092	24	12-02 Equip. Room	
425	CCH-093	24	12-02 Equip. Room	
425	CCH-098	24	12-02 Equip. Room	
425	CCH-099	24	12-02 Equip. Room	
425	CCH-101	24	12-02 Equip. Room	
425	CCH-102	24	12-02 Equip. Room	
425	CCH-109	24	12-02 Equip. Room	
425	CCH-251	24	12-02 Equip. Room	

BLDG. IB SYSTEM CC

CODE CLASS 2 EXAM PERIOD 3

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
425	CCH-301	24	12-02 Equip. Room	
425	CCH-302	24	12-02 Equip. Room	
425	CCH-303	24	12-02 Equip. Room	
425	CCH-304	24	12-02 Equip. Room	
425	CCH-307	24	12-02 Equip. Room	
425	CCH-308	24	12-02 Equip. Room	
425	CCH-309	24	12-02 Equip. Room	
425	CCH-310	24	12-02 Equip. Room	
425	CCH-311	24	12-02 Equip. Room	
425	CCH-312	24	12-02 Equip. Room	

BLDG. IB SYSTEM CC
 CODE CLASS 2 EXAM PERIOD 3

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
415	CCH-313	24	12-02 Equip. Room	
425	CCH-314	24	12-02 Equip. Room	
425	CCH-315	24	12-02 Equip. Room	
425	CCH-316	24	12-02 Equip. Room	
425	CCH-317	24	12-02 Equip. Room	
425	CCH-390	24	12-02 Equip. Room	
425	CCH-391	24	12-02 Equip. Room	
425	CCH-752	24	12-02 Equip. Room	
425	CCH-753	24	12-02 Equip. Room	
425	CCH-757	24	12-02 Equip. Room	

BLDG. IB SYSTEM CC

CODE CLASS 2 EXAM PERIOD 3

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
425	CCH-758	24	12-02 Equip. Room	
425	CCH-4011	24	12-02 Equip. Room	
425	CCH-4012	24	12-02 Equip. Room	
425	CCH-4013	24	12-02 Equip. Room	
429	CCH-4015	24	12-02 Equip. Room	Variable Spring Hanger
429	CCH-4016	24	12-02 Equip. Room	
430	CCH-105	24	12-02 Equip. Room	Variable Spring Hanger
430	CCH-106	24	12-02 Equip. Room	
430	CCH-107	24	12-02 Equip. Room	

BLDG. IB SYSTEM CC

CODE CLASS 2 EXAM PERIOD 3

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
413	CCH-299	16	12-02W Equip. Room	
413	CCH-300	16	12-02W Equip. Room	
420	CCH-247	24	12-02W Equip. Room	
420	CCH-292	24	12-02W Equip. Room	
425	CCH-083	24	12-02W Equip. Room	
425	CCH-084	24	12-02W Equip. Room	Snubber
425	CCH-085	24	12-02W Equip. Room	
425	CCH-089	24	12-02W Equip. Room	
425	CCH-090	24	12-02W Equip. Room	

BLDG. IB SYSTEM CC

CODE CLASS 2 EXAM PERIOD 3

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
425	CCH-094	24	12-02W Equip. Room	
425	CCH-095	24	12-02W Equip. Room	
425	CCH-096	24	12-02W Equip. Room	
425	CCH-097	24	12-02W Equip. Room	
425	CCH-484	24	12-02W Equip. Room	
429	CCH-333	16	12-02W Equip. Room	
433	CCH-331	16	12-02W Equip. Room	
433	CCH-332	16	12-02W Equip. Room	
433	CCH-334	16	12-02W Equip. Room	

BLDG. IB SYSTEM CC

CODE CLASS 2 EXAM PERIOD 3

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
415	CCH-772	20	12-02E Equip. Room	
423	CCH-770	24	12-02E Equip. Room	
436	CCH-336	24	36-02W Piping Area	
436	CCH-381	24	36-02W Piping Area	
437	CCH-380	24	36-02W Piping Area	
439	CCH-330	16	36-02W Piping Area	
443	CCH-4010	16	36-02W Piping Area	

BLDG. IB SYSTEM CC

CODE CLASS 2 EXAM PERIOD 3

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
447	CCH-324	24	36-02W Piping Area	
447	CCH-325	24	36-02W Piping Area	
447	CCH-326	24	36-02W Piping Area	
447	CCH-327	24	36-02W Piping Area	
451	CCH-328	24	36-02W Piping Area	
451	CCH-378	24	36-02W Piping Area	
451	CCH-379	24	36-02W Piping Area	
451	CCH-4019	24	36-02W Piping Area	

BLDG. IB SYSTEM CC

CODE CLASS 3 EXAM PERIOD 3

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
412	XPP-1A "A" Component Cooling Water Pump	20	12-02	
412	XPP-1B "B" Component Cooling Water Pump	20	12-02	
412	XPP-1C "C" Component Cooling Water Pump	20	12-02	

BLDG. AB SYSTEM SP
 CODE CLASS 2 EXAM PERIOD 3

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
382	SPH-060	8	74-05 Passage	
382	SPH-061	8	74-05 Passage	
382	SPH-071	8	74-05 Passage	
396	SPH-143	8	74-06 Tank & Pump Room	
382	SPH-057	8	74-07 Water Pump	
382	SPH-058	8	74-08 Corridor	
382	SPH-059	8	74-08 Corridor	
382	SPH-068	8	74-08 Corridor	
382	SPH-069	8	74-08 Corridor	
382	SPH-070	8	74-08 Corridor	

BLDG. AB SYSTEM SP
 CODE CLASS 2 EXAM PERIOD 3

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
380	SPH-001	10	74-09 Corridor	
382	SPH-067	8	74-09W Corridor	
378	SPH-289	12	74-16 Spray Pump Room	
380	SPH-015	10	74-16 Spray Pump Room	
380	SPH-1069	10	74-16 Spray Pump Room	
380	SPH-1070	10	74-16 Spray Pump Room	
382	SPH-056	8	74-16 Spray Pump Room	
383	SPH-054	8	74-16 Spray Pump Room	Variable Spring Hanger
383	SPH-107	8	74-16 Spray Pump Room	Snubber

BLDG. AB SYSTEM SP

CODE CLASS 2 EXAM PERIOD 3

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
383	SPH-142	8	74-16 Spray Pump Room	
384	SPH-303	12	74-16 Spray Pump Room	
388	SPH-287	12	74-16 Spray Pump Room	
390	SPH-284	12	74-16 Spray Pump Room	
390	SPH-285	12	74-16 Spray Pump Room	
390	SPH-286	12	74-16 Spray Pump Room	Variable Spring Hanger
377	SPH-106	8	74-17 Spray Pump Room	
378	SPH-290	12	74-17 Spray Pump Room	
380	SPH-1071	10	74-17 Spray Pump Room	

BLDG. AB SYSTEM SP

CODE CLASS 2 EXAM PERIOD 3

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
380	SPH-1072	10	74-17 Spray Pump Room	
383	SPH-037	8	74-17 Spray Pump Room	
384	SPH-292	12	74-17 Spray Pump Room	
384	SPH-293	12	74-17 Spray Pump Room	
390	SPH-295	12	74-17 Spray Pump Room	Variable Spring Hanger
394	SPH-072	8	88-05 Pump & Panel Room	
407	SPH-031	12	88-13S Corridor	Variable Spring Hanger
396	SPH-062	8	88-16 & 88-13 Corridor	
400	SPH-033	12	97-02 Valve Area	

BLDG. AB SYSTEM SP

CODE CLASS 2 EXAM PERIOD 3

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
400	SPH-034	12	97-02 Valve Area	
400	SPH-035	12	97-02 Valve Area	Variable Spring Hanger
404	SPH-017	10	97-02 Valve Area	
405	SPH-006	10	97-02 Valve Area	
407	SPH-018	10	97-02 Valve Area	
407	SPH-028	12	97-02 Valve Area	Variable Spring Hanger
407	SPH-074	12	97-02 Valve Area	Variable Spring Hanger
398	SPH-004	10	97-02S Valve Chamber	
399	SPH-002	10	97-02S Valve Chamber	
399	SPH-003	10	97-02S Valve Chamber	

BLDG. AB SYSTEM SP
 CODE CLASS 2 EXAM PERIOD 3

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
399	SPH-005	10	97-02S Valve Chamber	
399	SPH-296	12	97-02S Valve Chamber	Variable Spring Hanger
400	SPH-025	12	97-02S Valve Chamber	Variable Spring Hanger
400	SPH-026	12	97-02S Valve Chamber	Variable Spring Hanger
400	SPH-080	12	97-02S Valve Chamber	
400	SPH-076	20	97-02E Valve Area	
400	SPH-077	20	97-02E Valve Area	
405	SPH-007	10	97-02E Valve Area	
405	SPH-008	10	97-02E Valve Area	
407	SPH-019	10	97-02E Valve Area	

BLDG. AB SYSTEM SP

CODE CLASS 2 EXAM PERIOD 3

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN')	LOCATION	REMARKS
407	SPH-020	10	97-02E Valve Area	
407	SPH-063	10	97-02E Valve Area	
410	SPH-064	10	97-02E Valve Area	
411	SPH-4007	10	97-02E Valve Area	
403	SPH-016	10	97-02W Valve Area	
400	SPH-075	20	97-02N Valve Area	
400	SPH-081	12	97-02N Valve Area	
405	SPH-032	12	97-02N Valve Area	
407	SPH-029	12	97-02N Valve Area	
407	SPH-073	12	97-02N Valve Area	

BLDG. AB SYSTEM SP

CODE CLASS 2 EXAM PERIOD 3

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
407	SPH-030	12	00-02 Normal Slab	
425	SPH-009	10	West Pen.	
425	SPH-010	10	West Pen. (North)	
425	SPH-011	10	West Pen. (North)	
427	SPH-091	10	West Pen. (North)	
425	SPH-065	10	West Pen. (South)	
427	SPH-021	10	West Pen. (South)	
427	SPH-022	10	West Pen. (South)	
427	SPH-023	10	West Pen. (South)	Variable Spring Hanger
427	SPH-066	10	West Pen. (South)	
454	SPH-012	10	36-17 S.E. Corridor	
458	SPH-013	10	West Pen. (North)	

BLDG. AB SYSTEM SP
CODE CLASS 2 EXAM PERIOD 3

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
436	SPH-079	10	West Pen. (South)	
456	SPH-024	10	West Pen. (South)	
459	SPH-078	10	West Pen. (South)	
463	SPH-4002	10	West Pen. (North)	
475	SPH-053	10	West Pen. (South)	
477	SPH-014	10	West Pen. (North)	

BLDG. AB SYSTEM SP

CODE CLASS 2 EXAM PERIOD 3

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
374	XPP-38A "A" Reactor Building Spray Pump	12	74-17	
375	XPP-38B "B" Reactor Building Spray Pump	12	74-16	

BLDG. AB SYSTEM AS

CODE CLASS 3 EXAM PERIOD 3

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
445	ASH-077	6	36-30	
449	ASH-076	6	36-31	

BLDG. IB SYSTEM AS
CODE CLASS 3 EXAM PERIOD 3

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
445	ASH-081	6	36-02 (Above door IB-304)	
445	ASH-082	6	36-02 (Above door IB-304)	
445	ASH-083	6	36-02 (West)	Snubber
445	ASH-084	6	36-02 (West)	Snubber

BLDG. EG SYSTEM DG

CODE CLASS 3 EXAM PERIOD 3

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
439	DGH-1190	12	36-03	
449	DGH-1192	12	36-03	
439	DGH-1191	12	36-04	
449	DGH-1193	12	36-04	

BLDG. AB SYSTEM CC
CODE CLASS 3 EXAM PERIOD 3

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
415	CCH-270	8	12-11	
420	CCH-037	8	12-11	
423	CCH-130	8	12-11	

BLDG. IB SYSTEM EF
 CODE CLASS 3 EXAM PERIOD 3

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
411	EFH-094	10	12-02E	
411	EFH-095	10	12-02E	
411	EFH-096	10	12-02E	
411	EFH-097	6	12-02E	
411	EFH-098	6	12-02E	
411	EFH-099	6	12-02E	
414	EFH-100	6	12-02E	Variable Spring Hanger
414	EFH-4007	6	12-02E	
414	EFH-4025	6	12-02E	
418	EFH-4023	6	12-02E	
419	EFH-101	8	12-02E	Snubber
419	EFH-102	8	12-02E	
419	EFH-4024	6	12-02E	
419	EFH-4027	6	12-02E	
419	EFH-4045	8	12-02E	
420	EFH-109	6	12-02E	
420	EFH-110	6	12-02E	
421	EFH-4028	8	12-02 (West)	
422	EFH-103	8	12-02 (West)	

BLDG. IB SYSTEM EF

CODE CLASS 3 EXAM PERIOD 3

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
426	EPH-104	8	12-02 (West)	
411	EPH-4026	10	12-10	
413	EPH-4022	8	12-10	
414	EPH-107	8	12-10	Variable Spring Hanger
414	EPH-4019	8	12-10	Snubber
414	EPH-4031	8	12-10	
423	EPH-106	8	236-01	
426	EPH-105	8	236-01	

BLDG. IB SYSTEM EF
CODE CLASS 3 EXAM PERIOD 3

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
412	XPP-21A Emergency Feed Water Pump	6	12-02E	
412	XPP-21B Emergency Feed Water Pump	6	12-02E	
412	XPP-8 Emergency Feed Water Pump	6	12-10	

BLDG. IB SYSTEM VU
 CODE CLASS 3 EXAM PERIOD 3

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
418	VUH-1404	6	12-02 (West-South)	
419	VUH-1476	6	12-02 (Center-South)	
419	VUH-1477	6	12-02 (Center-South)	
422	VUH-1403	6	12-02 (West-South)	
423	VUH-1474	6	12-02 (Center)	
415	VUH-1484	6	12-12	
418	VUH-1483	6	12-12	
422	VUH-1556	6	12-12	
422	VUH-1557	6	12-12	
419	VUH-1472	6	12-13	
423	VUH-1037	24	12-13	
423	VUH-1038	24	12-13	

BLDG. EG SYSTEM EF
CODE CLASS 3 EXAM PERIOD 3

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
414	EPH-4034	10	00-01	
414	EPH-4035	10	00-01	

BLDG. IB SYSTEM VU
 CODE CLASS 3 EXAM PERIOD 3

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
423	VUH-1039	24	12-13	
423	VUH-1040	24	12-13	
421	VUH-1560	6	12-14	
421	VUH-1561	6	12-14	
421	VUH-1485	6	12-15	
422	VUH-1563	6	12-15	
422	VUH-1564	6	12-15	
427	VUH-1565	6	26-01	
429	VUH-1562	6	26-01	
427	VUH-1559	6	26-02	
450	VUH-1488	6	36-02 (West)	

BLDG. IB SYSTEM VU

CODE CLASS 3 EXAM PERIOD 3

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
412	XPP-48A "A" Chilled Water Pump	6	12-13C	
412	XPP-48B "B" Chilled Water Pump	6	12-13A	
412	XPP-48C "C" Chilled Water Pump	6	12-13B	

BLDG. CB SYSTEM VU
CODE CLASS 3 EXAM PERIOD 3

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
477	VUH-1487	6	63-04	

BLDG. AB SYSTEM WG

CODE CLASS 3 EXAM PERIOD 3

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
406	WGH-1709	10	00-01	
406	WGH-1710	10	00-01	
406	WGH-1711	10	00-01	

BLDG. IB SYSTEM SW

CODE CLASS 3 EXAM PERIOD 3

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
419	SWH-1145	6	12-12	
419	SWH-1147	6	12-14	
419	SWH-1148	6	12-14	
417	SWH-1146	6	12-15	
418	SWH-1144	6	12-15	

BLDG. IB SYSTEM SW
CODE CLASS 3 EXAM PERIOD 3

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
412	XPP-45A Service Water Booster Pump	12	12-02W	
412	XPP-45B Service Water Booster Pump	12	12-02W	

BLDG. SW SYSTEM SW

CODE CLASS 3 EXAM PERIOD 3

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
436	XPP-39A Service Water Pump	24	36-02	
436	XPP-39B Service Water Pump	24	36-02	
436	XPP-39C Service Water Pump	24	36-02	

BLDG. AB SYSTEM RH

CODE CLASS 3 EXAM PERIOD 3

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
412	XHE-005A Heat Exchangers Supports (2)	40	12-06	ISI CGE-2-1110
412	XHE-005B Heat Exchangers Supports (2)	40	12-05	ISI CGE-2-1110

BLDG. AB SYSTEM CS

CODE CLASS 3 EXAM PERIOD 3

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
412	XHE-014 Letdown Reheat Heat Exchanger Support (2)	22	12-12	ISI CGE-2-1130
412	XHE-011 Seal Water Heat Exchanger Support (2)	20	12-13	ISI CGE-2-1160

BLDG. AB SYSTEM TR

CODE CLASS 3 EXAM PERIOD 3

ELEV.	HANGER NO.	PIPE/ITEM SIZE (IN)	LOCATION	REMARKS
412	XHE-015 Letdown Reheat Heat Exchanger Support (2)	9	12-27	ISI CGE-2-1140

HANGER INSPECTION STATUS REPORT

ISI OUTAGE _____ SHEET _____ OF _____
 FROM _____ TO _____ CATEGORY _____
 MONTH YEAR MONTH YEAR PERIOD ITEM NO. (s)
 CLASS _____

DRAWING OR ISOMETRIC NO.	HANGER NO.	TOTAL ITEMS		ITEMS EXAMINED		% COMPLETE		% REMAINING		REMARKS
		PERIOD	INTERVAL	PERIOD	INTERVAL	PERIOD	INTERVAL	PERIOD	INTERVAL	

PREPARED BY: _____ DATE _____ APPROVED BY: _____ DATE _____
 REVIEWED BY: _____ DATE _____