

# REQUEST FOR ADDITIONAL INFORMATION 283-2200 REVISION 1

3/19/2009

US-APWR Design Certification

Mitsubishi Heavy Industries

Docket No. 52-021

SRP Section: 13.06.02 - Physical Security - Design Certification

Application Section: Tier 1, Chapter 2, Tier 2, Chapter 13.6, US-APWR Design Certification Physical Security Element Review UAP-SGI-08001 R1, and US-APWR - High Assurance Assessment Evaluation Report (UAP-STI-08002 R0)

QUESTIONS for Reactor Security and Programs Branch (NSIR/DRP/RSPLB)

13.06.02-1

65. **(U)** In the "US-APWR Physical Security Element Review Report," dated September 2008, UAP-SGI-08001 R1, in Appendices B, C and D, MHI provides a list of vital equipment. It appears that the following systems are excluded in the list of vital equipment:

***The specific details of this question is security-related and subject to withholding in accordance with 10 CFR 2.390(1)(i).***

***The question was provided to the applicant under a separate transmittal.***

**(U)** Clarify how MHI addressed the above systems in determining a comprehensive list of vital equipment. Provide the assumptions and technical basis for systems that are not included or identified as vital. In addition, verify that the US-APWR systems listed are consistent with the system designators used in the design certification documentation.

**(U)** Regulatory Basis: Same as previously stated (i.e., Subpart B of Title 10 CFR (10 CFR) 52, § 52.47, 10 CFR 52.48, 10 CFR Part 73, and 10 CFR 73.55(a)). Title 10 CFR 73.2 defines vital equipment as "equipment, system, device, or material, the failure, destruction, or release of which could directly or indirectly endanger the public health and safety by exposure to radiation. To adequately protect against the DBT of radiological sabotage, a design applicant must first identify a complete and accurate list of vital equipment and subsequently target sets for which the design of a physical protection systems and COL security programs are provided to meet general performance requirements of 10 CFR 73.20, 73.45, and 73.55.

**(U)** ***Note Applicable to All RAI Responses:*** ***The information addressing specific details related to security features will be safeguards information (SGI) and must be marked and protected in accordance with 10 CFR 73.21. The applicant should portion mark text in the response to request for information (RAI) as appropriate to identify SGI that reveals the specific details of security features incorporated in the US-APWR design. Other security-related or not of sensitive information should be identified and protected as required. The RAI responses supplementing the DC Tier 1 document must be publicly available.***

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13.06.02-2

67. (U) In the “US-APWR Design Certification Physical Security Elements Review,” dated September 2008, Appendices B, C and D, MHI does not address operator actions.

***The specific details of this question is security-related and subject to withholding in accordance with 10 CFR 2.390(1)(i).***

***The question was provided to the applicant under a separate transmittal.***

(U) Regulatory Basis: Same as previously stated (i.e., Subpart B of Title 10 CFR (10 CFR) 52, § 52.47, 10 CFR 52.48, 10 CFR Part 73, and 10 CFR 73.55(a)). Title 10 CFR 73.2 defines vital equipment as “equipment, system, device, or material, the failure, destruction, or release of which could directly or indirectly endanger the public health and safety by exposure to radiation. To adequately protect against the DBT of radiological sabotage, a design applicant must first identify a complete and accurate list of vital equipment and subsequent target sets for which the design of a physical protection systems and COL security programs are provided to meet general performance requirements of 10 CFR 73.20, 73.45, and 73.55.

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13.06.02-3

68. (U) In the “US-APWR Physical Security Element Review Report,” dated September 2008, UAP-SGI-08001 R1, Appendices B, C and D, MHI does not appear to include the

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Discuss the rationale for excluding this system.

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protection systems and COL security programs are provided to meet general performance requirements of 10 CFR 73.20, 73.45, and 73.55.

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13.06.02-4

69. **(U)** In the “US-APWR Physical Security Element Review Report,” dated September 2008, UAP-SGI-08001 R1, Appendices B, C and D, MHI does not appear to

***The specific details of this question is security-related and subject to withholding in accordance with 10 CFR 2.390(1)(i).***

***The question was provided to the applicant under a separate transmittal.***

**(U) Regulatory Basis:** Same as previously stated (i.e., Subpart B of Title 10 CFR (10 CFR) 52, § 52.47, 10 CFR 52.48, 10 CFR Part 73, and 10 CFR 73.55(a)). Title 10 CFR 73.2 defines vital equipment as “equipment, system, device, or material, the failure, destruction, or release of which could directly or indirectly endanger the public health and safety by exposure to radiation. To adequately protect against the DBT of radiological sabotage, a design applicant must first identify a complete and accurate list of vital equipment and subsequently target sets for which the design of a physical protection systems and COL security programs are provided to meet general performance requirements of 10 CFR 73.20, 73.45, and 73.55.

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13.06.02-5

70 **(U)** In the “US-APWR Physical Security Element Review Report,” dated September 2008, UAP-SGI-08001 R1, Appendices B, C and D, MHI excludes . . .

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13.06.02-6

74. (U) In the “US-APWR High Assurance Evaluation Assessment,” dated September 2008,” UAP-SGI-08002 R0, in Section 4.4 on page 7, MHI states . . .

***The specific details of this question is security-related and subject to withholding in accordance with 10 CFR 2.390(1)(i).  
The question was provided to the applicant under a separate transmittal.***

Identify the vital equipment/areas that areas that are excluded as a result of this assumption.

(U) Regulatory Basis: Same as previously stated (i.e., Subpart B of Title 10 CFR (10 CFR) 52, § 52.47, 10 CFR 52.48, 10 CFR Part 73, and 10 CFR 73.55(a)). Title 10 CFR 73.2 defines vital equipment as “equipment, system, device, or material, the failure, destruction, or release of which could directly or indirectly endanger the public health and safety by exposure to radiation. To adequately protect against the DBT of radiological sabotage, a design applicant must first identify a complete and accurate list of vital equipment and subsequently target sets for which the design of a physical protection systems and COL security programs are provided to meet general performance requirements of 10 CFR 73.20, 73.45, and 73.55.

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13.06.02-7

75. (U) In “US-APWR Physical Security Element Review Report,” dated September 2008, UAP-SGI-08001 Revision 1, in Appendices B, C and D, MHI identifies vital equipment that . . .

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***The question was provided to the applicant under a separate transmittal.***

(U) Regulatory Basis: Same as previously stated (i.e., Subpart B of Title 10 CFR (10 CFR) 52, § 52.47, 10 CFR 52.48, 10 CFR Part 73, and 10 CFR 73.55(a)). Title 10 CFR 73.2 defines vital equipment as “equipment, system, device, or material, the failure, destruction, or release of which could directly or indirectly endanger the public health and safety by exposure to radiation. To adequately protect against the DBT of radiological sabotage, a design applicant must first identify a complete and accurate list of vital equipment and subsequently target sets for which the design of a physical protection systems and COL security programs are provided to meet general performance requirements of 10 CFR 73.20, 73.45, and 73.55.

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13.06.02-8

78. (U) In “US-APWR Physical Security Element Review Report,” dated September 2008, UAP-SGI-08001 R1 and “US-APWR High Assurance Evaluation Assessment,” dated September 2008,” UAP-SGI-08002 R0, . . .

***The specific details of this question is security-related and subject to withholding in accordance with 10 CFR 2.390(1)(i).***

***The question was provided to the applicant under a separate transmittal.***

(U) Regulatory Basis: Same as previously stated (i.e., Subpart B of Title 10 CFR (10 CFR) 52, § 52.47, 10 CFR 52.48, 10 CFR Part 73, and 10 CFR 73.55(a)). Title 10 CFR 73.2 defines vital equipment as “equipment, system, device, or material, the failure, destruction, or release of which could directly or indirectly endanger the public health and safety by exposure to radiation. To adequately protect against the DBT of radiological sabotage, a design applicant must first identify a complete and accurate list of vital equipment and subsequently target sets for which the design of a physical protection systems and COL security programs are provided to meet general performance requirements of 10 CFR 73.20, 73.45, and 73.55.

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13.06.02-9

79. **(U)** In “US-APWR High Assurance Evaluation Assessment,” dated September 2008,” UAP-SGI-08002 R0,

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**(U) Regulatory Basis:** Same as previously stated (i.e., Subpart B of Title 10 CFR (10 CFR) 52, § 52.47, 10 CFR 52.48, 10 CFR Part 73, and 10 CFR 73.55(a)). Title 10 CFR 73.2 defines vital equipment as “equipment, system, device, or material, the failure, destruction, or release of which could directly or indirectly endanger the public health and safety by exposure to radiation. To adequately protect against the DBT of radiological sabotage, a design applicant must first identify a complete and accurate list of vital equipment and subsequently target sets for which the design of a physical protection systems and COL security programs are provided to meet general performance requirements of 10 CFR 73.20, 73.45, and 73.55.

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13.06.02-10

81. **(U)** Explain why

***The specific details of this question is security-related and subject to withholding in accordance with 10 CFR 2.390(1)(i).***

***The question was provided to the applicant under a separate transmittal.***

**(U) Regulatory Basis:** Same as previously stated (i.e., Subpart B of Title 10 CFR (10 CFR) 52, § 52.47, 10 CFR 52.48, 10 CFR Part 73, and 10 CFR 73.55(a)). Title 10 CFR 73.2

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defines vital equipment as “equipment, system, device, or material, the failure, destruction, or release of which could directly or indirectly endanger the public health and safety by exposure to radiation. To adequately protect against the DBT of radiological sabotage, a design applicant must first identify a complete and accurate list of vital equipment and subsequently target sets for which the design of a physical protection systems and COL security programs are provided to meet general performance requirements of 10 CFR 73.20, 73.45, and 73.55.

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13.06.02-11

82. (U) Explain why

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**(U) Regulatory Basis:** Same as previously stated (i.e., Subpart B of Title 10 CFR (10 CFR) 52, § 52.47, 10 CFR 52.48, 10 CFR Part 73, and 10 CFR 73.55(a)). Title 10 CFR 73.2 defines vital equipment as “equipment, system, device, or material, the failure, destruction, or release of which could directly or indirectly endanger the public health and safety by exposure to radiation. To adequately protect against the DBT of radiological sabotage, a design applicant must first identify a complete and accurate list of vital equipment and subsequently target sets for which the design of a physical protection systems and COL security programs are provided to meet general performance requirements of 10 CFR 73.20, 73.45, and 73.55.

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13.06.02-12

83. (U) Explain why

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(U) Regulatory Basis: Same as previously stated (i.e., Subpart B of Title 10 CFR (10 CFR) 52, § 52.47, 10 CFR 52.48, 10 CFR Part 73, and 10 CFR 73.55(a)). Title 10 CFR 73.2 defines vital equipment as “equipment, system, device, or material, the failure, destruction, or release of which could directly or indirectly endanger the public health and safety by exposure to radiation. To adequately protect against the DBT of radiological sabotage, a design applicant must first identify a complete and accurate list of vital equipment and subsequently target sets for which the design of a physical protection systems and COL security programs are provided to meet general performance requirements of 10 CFR 73.20, 73.45, and 73.55.

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13.06.02-13

84. (U) Explain the reasons for not including this additional equipment in the vital equipment list for the Component Cooling Water CCW.

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(U) Regulatory Basis: Same as previously stated (i.e., Subpart B of Title 10 CFR (10 CFR) 52, § 52.47, 10 CFR 52.48, 10 CFR Part 73, and 10 CFR 73.55(a)). Title 10 CFR 73.2 defines vital equipment as “equipment, system, device, or material, the failure, destruction, or release of which could directly or indirectly endanger the public health and safety by exposure to radiation. To adequately protect against the DBT of radiological sabotage, a design applicant must first identify a complete and accurate list of vital equipment and subsequently target sets for which the design of a physical protection systems and COL security programs are provided to meet general performance requirements of 10 CFR 73.20, 73.45, and 73.55.

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13.06.02-14

85. **(U)** Clarify and explain the reasons for not including additional equipment

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**(U) Regulatory Basis:** Same as previously stated (i.e., Subpart B of Title 10 CFR (10 CFR) 52, § 52.47, 10 CFR 52.48, 10 CFR Part 73, and 10 CFR 73.55(a)). Title 10 CFR 73.2 defines vital equipment as “equipment, system, device, or material, the failure, destruction, or release of which could directly or indirectly endanger the public health and safety by exposure to radiation. To adequately protect against the DBT of radiological sabotage, a design applicant must first identify a complete and accurate list of vital equipment and subsequently target sets for which the design of a physical protection systems and COL security programs are provided to meet general performance requirements of 10 CFR 73.20, 73.45, and 73.55.

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13.06.02-15

86. **(U)** Clarify and explain the reasons for not including additional equipment . . .

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**(U) Regulatory Basis:** Same as previously stated (i.e., Subpart B of Title 10 CFR (10 CFR) 52, § 52.47, 10 CFR 52.48, 10 CFR Part 73, and 10 CFR 73.55(a)). Title 10 CFR 73.2 defines vital equipment as “equipment, system, device, or material, the failure,

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13.06.02-16

87. (U) Explain the reasons for not including additional equipment of the . . .

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13.06.02-17

88. (U) Explain the reasons for not including additional equipment of the . . .

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(U) Regulatory Basis: Same as previously stated (i.e., Subpart B of Title 10 CFR (10 CFR) 52, § 52.47, 10 CFR 52.48, 10 CFR Part 73, and 10 CFR 73.55(a)). Title 10 CFR 73.2 defines vital equipment as “equipment, system, device, or material, the failure, destruction, or release of which could directly or indirectly endanger the public health and safety by exposure to radiation. To adequately protect against the DBT of radiological sabotage, a design applicant must first identify a complete and accurate list of vital equipment and subsequently target sets for which the design of a physical protection systems and COL security programs are provided to meet general performance requirements of 10 CFR 73.20, 73.45, and 73.55.

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13.06.02-18

89. (u) Explain how results and insights from . . .

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(U) Regulatory Basis: Same as previously stated (i.e., Subpart B of Title 10 CFR (10 CFR) 52, § 52.47, 10 CFR 52.48, 10 CFR Part 73, and 10 CFR 73.55(a)). Title 10 CFR 73.2 defines vital equipment as “equipment, system, device, or material, the failure, destruction, or release of which could directly or indirectly endanger the public health and safety by exposure to radiation. To adequately protect against the DBT of radiological sabotage, a design applicant must first identify a complete and accurate list of vital equipment and subsequently target sets for which the design of a physical protection systems and COL security programs are provided to meet general performance requirements of 10 CFR 73.20, 73.45, and 73.55.

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*the US-APWR design. Other security-related or not of sensitive information should be identified and protected as required. The RAI responses supplementing the DC Tier 1 document must be publicly available.*