



66 -- RECHARGE OF COBALT-60 IRRADIATOR

- [Combine Synopsis/Solicitation](#) - Posted on Feb 07, 2006
- [Amendment to Combined Synopsis/Solicitation 01](#) - Posted on Feb 21, 2006

General Information

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Contracting Office Address

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Description

The purpose of this admendment is to answer questions received from potential offerors.

Question 1: The room in which the pool is located must have existing equipment, cabinets and the

false floor removed in order to assemble the equipment required to raise/lower casks from the pool and perform necessary operations. Will the equipment be removed by NRL prior to initiation of the reload operation or will the contractor be responsible for removal?

Response 1: This is the contractor's responsibility.

Question 2: The frame over the pool which holds the radiation monitor must be removed. Will this be done by NRL or the Contractor?

Response 2: This is the contractor's responsibility.

Question 3: It may be necessary to remove/move the water purification system. If necessary will this be done by NRL or the Contractor?

Response 3: This is the contractor's responsibility.

Question 4: Will replacement of items covered under 1, 1.A., and 1.B. be done by NRL or the Contractor?

Response 4: This is the contractor's responsibility.

Question 5: Is the 1 ton hoist over the pool operational? Can it be used by the Contractor as Required?

Response 5: No, the 1 ton hoist is not currently operational. NRL will make it operational prior to the proposed work. Note however that it will not reach to the outside doorway. Items must be placed at the bottom of the steps to the outside doorway, then lifted by the 1-ton crane.

Question 6: Can NRL provide an 8,000 lb forklift for loading/unloading delivery vehicles?

Response 6: No, because of the liability, the contractor must supply a forklift.

Question 7: When the lid of the can containing the existing Co-60 sources is removed the water in the can should be sampled by the Contractor. Will NRL provide the equipment for counting these samples or will it be supplied by the Contractor?

Response 7: NRL will have a High Purity Germanium (HPGe) Detector available to count samples. A member of the NRL Health Physics staff will be available to operate the HPGe.

Question 8: The contractor will perform work under a RAM license. Does this present a problem for NRL? Note: under the RAM license the shipping:transfer shields employed may and will have external radiation levels in excess of 2 mR:hr at one foot. Because these containers will be stored/handled in a controlled area with no access for unauthorized personnel this should not present a problem.

Response 8: No. This does not present a problem for NRL. A restricted area boundary will have to be established and maintained. NRL Health Physics personnel will work in unison with security guards to maintain restricted access.

Question 9: What working hours for operations at NRL are permitted? The Solicitation calls out that cask handling operations, in and out of the pool be accomplished on weekends/Federal Holidays. Can these operations be performed after normal working hours, i.e. at night?

Response 9: It may not be done at night during the work week. It may be done at night if it is a weekend or a Federal Holiday.

Question 10: What, if any, on-site training for Contractor personnel will be required to work at NRL? If any, what is the time required for this training?

Response 10: It is expected the contractor personnel performing the work will be fully trained to do so under an NRC approved license. Therefore, no additional training will be required at NRL. It is prudent to allow 1-2 hours in advance of the work for a final discussion between contractor personnel, NRL Health Physics personnel and other NRL support personnel, e.g. security guards, regarding required restricted area distances, the expected time required, and the process of clearing areas and verifying the operation is ready to begin, etc.

Question 11: May existing source can and carousel assembly be used? The Solicitation indicates that this is possible. If so, will it be necessary to remove the source can and carousel from the pool for Maintenance and re-install?

Response 11: If the contractor can use the existing source can and carousel to meet the specifications in the contract solicitation, it may do so. The contractor may perform maintenance and installation of the new source pencils with the existing source can and carousel remaining in the pool as long as all other requirements of the contract solicitation are met.

Question 12: Section 4 of - Proposal Requirements-Contract Options, states that the room in which the irradiator is housed be brought into compliance with 10 CFR 36 requirement. The pertinent parts of 10CFR36 are 36.23 (i) (Access Control) and 36.29 (b) radiation monitor over pool. The latest Increased Security requirements of the USNRC are not addressed.

Response 12: Basically the Access Control is accomplished by an Intrusion Alarm with annunciators located both locally and in a remote ?Security Office?. This system should be compatible with other Security systems employed at NRL. It should be installed by NRL. If supplied by the Contractor detailed information on ?Security Systems? approved for and in use at NRL must be supplied to the Contractor. No such information was presented in the Solicitation. Any wiring for such a system to remote facilities must be supplied by NRL. The system as described should meet the ?Increased Security? criteria.

Installation of the intrusion alarm will be performed by NRL personnel.

If the existing Radiation Monitor mounted above the pool is in good working order it should not require replacement. If the Alarm mode is not remoted to the Security or other designated site this should be able to be accomplished readily with additional wiring and a possible additional relay to meet the Increased Security criteria.

If a new Radiation Monitor is to be supplied by the Contractor, the type of Monitor must be specified so that it is compatible with other systems at NRL. All wiring to Remote locations must be accomplished by NRL.

NRL expects the same monitor to be put back and will wire the alarm into the security operations center.

Question 13: Will the Contractor be required to install the Intrusion Alarm and wire it to a Remote location? Likewise for a new Radiation Monitor If wiring is required the Contractor will need both Wiring Codes which must be met and detailed architectural drawing of all locations through which wiring must be accomplished.

Response 13: See Response to Question 9.

Question 14: Section 6 of the Proposal Requirements-Contract Options calls out a new cask for storage of the existing Co-60 sources in the NRL storage facility. It was assumed that the existing Neutron Products shield used for the initial installation of these sources could be used. Apparently this cask has significant but minor levels of contamination. If this cask may be

employed to store the existing sources several questions are pertinent as follows:

a. Will NRL move the cask from the Hot Cell facility where it is located to a location outside the room housing the Irradiator and will NRL move this cask back to the Hot Cell Facility after it has been loaded with the existing sources or will this be a Contractor responsibility?

Response 14(a): This will be the Contractor's responsibility.

b. To avoid contaminating the pool when this cask is used it must be decontaminated prior to pool entry. Will this cask be decontaminated to acceptable levels by NRL or will this be a Contractor responsibility?

Response 14(b): This will be the Contractor's responsibility.

Question 15: Are the shield(s) called out in Section 5. of the Proposal Requirements - required to be fabricated using Stainless Steel construction for extended exposure in the pool or is construction using mild steel possible? Is the weight limit 5,000 pounds?

Response 15: Fabricate the shields using stainless steel for extended exposure in the pool. The weight limit for section 5 is NOT 5,000 pounds. NRL expects that an individual cask will weigh less than 10 tons. Subject to the specified criteria, the lower the weight the better for ease of handling and to minimize the potential stress to the bottom of the pool.

Point of Contact

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