

**Technical Support for the Advisory Board on
Radiation and Worker Health Review of
NIOSH Dose Reconstruction Program**

**Volume 3: Technical Approach to Sample Task 2
Request for Proposal (RFP) 2003-N-00768**

Submitted to:

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Acquisition and Assistance Field Branch
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June 2, 2003

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**SAMPLE TASK 2
INDIVIDUAL DOSE RECONSTRUCTION REVIEW:
20 ADVANCED REVIEWS**

This section presents SC&A's work plan for the sample task provided in Attachment F of the Solicitation. Extensive cross-reference is made to the procedures and checklists provided in Section 3 (Technical Approach) and Appendix C of Volume 1 of this proposal.

This section presents a detailed work plan, levels of effort (costs are provided under a separate cover), and schedule for completing Advanced Dose Reconstruction Reviews for the 20 cases listed in Table 1, assuming that five cases are required to be delivered during each quarter. (Some of the material restates points made in Section 3 (Technical Approach) of Volume 1 in order to facilitate the review of this section without having to cross-reference).

Table 1. Sample Task 2

1 st Quarter Site	No. of cases	2 nd Quarter Site	No. of cases	3 rd Quarter Site	No. of cases	4 th Quarter Site	No. of cases
Hanford	2	Y-12	2	Savannah River	1	Rocky Flats	1
INEEL	1	Metals and Controls, MA	1	Combustion Eng., CT	1	LANL	1
Mallinckrodt, MO	1	NUMEC, PA	1	Nevada Test Site	1	WR Grace, TN	1
Allied Chemical, Ill	1	Linde Ceramics, NY	1	Maywood, NJ	1	Pantex, TX	1
				Harshaw Chemical, OH	1	Lawrence Livermore, CA	1
Total	5		5		5		5

We recognize that the level of effort and time required for the performance of each advanced review will decline as we develop more and more experience with the worker and site profiles. Hence, the level of effort and time required to perform each advanced review, as described below, takes into consideration the fact that, in the first year of the project, we will perform 70 basic reviews, 70 advanced reviews, 10 blind dose reconstructions, 5 worker profile reviews, and 5 site profile reviews. The level of effort for each advanced review reflects the average time required for each advanced review among the 70 advanced reviews performed during the first year and takes credit for "moving up the learning curve" as a result of performing all of this work, along with the two weeks invested in preparing the technical and cost proposal.

Finally, as indicated in Section 2.1 and Section 4 of Volume 1, we have a large, highly qualified staff to draw upon. In theory, we have the ability to assign 10, three-person teams simultaneously to the tasks, and have the ten teams proceed in parallel. Given that it will require an average of _____ for each advanced review, the 20 cases could, in theory, be completed in about _____. However, we recognize that, along with these 20 advanced reviews, we may have a number of basic reviews, blind dose reconstructions, and perhaps a review of one or more site and worker profiles, and even one or more SEC petition reviews. As such, we will not have the luxury to move all 20 cases in parallel. Hence, we allocated resources taking into consideration that other Task Orders may be ongoing in parallel with this one.

All Task Order Request Packages (TORPs) will be logged in, technical and cost proposals will be prepared, and work will commence upon receipt of an approved Task Order. All Task Orders will be processed, documented, and the work products delivered under a highly transparent, structured project management, and quality assurance process. Upon arrival at SC&A, the TORP will be date stamped, assigned a TORP number, and placed in the dedicated project file under lock and key under the control of records management (see Section 2.7 of Volume 1). As a means of tracking performance of each case or task comprising the TORP, the technical and cost proposal will be subdivided into individual cases, and, as required by each case, each case may be further subdivided into individual tasks, such as dose reconstruction review, worker profile review, interview record review, and site profile review. Filing and tracking the cost and performance of each TORP will be performed under the following work breakdown structure:

- Tier 1: Task Order Number
- Tier 2: Case Number
- Tier 3: Dose Reconstruction
- Tier 3: Worker Profile
- Tier 3: Interviews
- Tier 3: Site Profile

Using a relational database, we can also sort according to site (e.g., Hanford, Savannah River, etc.), category of site (e.g., FUSRAP site, uranium processing facilities, etc.), category of exposure (e.g., external gamma, plutonium inhalation), or any other parameter that will serve to appropriately identify the work package.

While the task order filing system is being established, each key member of the project team (see Exhibit 2-1 of Volume 1) will receive copies of the TORP for initial inspection with respect to scope, schedule, and conflict-of-interest issues. A meeting will be held by the key members of the project team to discuss the TORP and any supporting records and documentation provided with the TORP. The meeting will be designed to accomplish the following objectives:

- Identify questions and concerns to be discussed with the NIOSH Project Officer and/or Advisory Board representatives
- Identify the Case Managers and/or Task Managers and assemble the teams for performing the work required by each case or task contained in the TORP
- Prepare a schedule for completion and delivery of the technical and cost proposal in response to the TORP

Under the direction of the Project Manager, a comprehensive technical and cost proposal will be prepared and delivered to the Project Officer within 14 calendar days of receiving the TORP. The following presents the technical proposal for this sample task order.

1.0 TASK ORDER TEAM

Case Managers will be selected based on either their familiarity with the site or category of the site and/or special technical issues associated with the exposures (e.g., the case is limited to reviewing the dose reconstruction of a person who experienced internal exposures to inhaled plutonium and the associated bioassay data). For the 18 sites identified in the sample problem, we grouped the sites/cases into related categories. Table 2 presents a draft matrix that was used to assemble the teams of personnel for each case. The information provided in Table 2, along with the information provided in Exhibit 4-1 of Volume 1, is used to identify the teams to be assigned to each case. For an actual TORP, the records provided with the cases should help to better define the qualifications of the Case Managers and technical specialists that will be assigned to each case.

For advanced reviews, a minimum of three individuals will be assigned to each case. These individuals will have the following functions:

- Dose Reconstruction Reviews (possibly divided into external and internal dose reconstruction reviewers)
- Worker Profile Reviews
- Interview Records Reviews
- Relevant Aspects of the Site Profile Reviews

One of these individuals will be the designated Case Manager. Because of the complexity of many of the sites, the Case Manager will likely be selected based on familiarity with the site. These individuals can draw upon any of the other specialists on the project team as needed to perform Tasks A, B, and C for the advanced reviews, as delineated in Attachment F of the solicitation. Table 3 presents the three person teams assigned to each of the 20 cases in Sample Task 2. The first person named will serve as Case Manager. The teams were assembled using the following criteria:

- Familiarity with the site
- Familiarity with the health physics issues at the site
- Avoid overloading one individual with too many cases at any given time.
- Attempt to keep the teams together as new cases arise

We believe that, after approval of the technical and cost proposal, advanced reviews will require about _____ to complete, including the review, auditing the review package in accordance with our QA procedures, and then filing and delivering the work product in accordance with our file-management procedures. Hence, from the date of authorization, the review, documentation, and delivery of advanced reviews will each require about _____. More complex cases may require as many as _____. Accordingly, we believe that any given team can handle about 2 to 3 advanced reviews per quarter.

Table 2. Matrix of Required Capabilities

Site	Category of Facilities	Exposure Settings/Scenarios							
		External gamma	External neutron	Plutonium, including other TRU	NORM (Ra/Th)	Uranium	Tritium	Thorium-232+ Progeny	Other Internal
Hanford	Reactors	✓	✓				✓		✓
	Chemical processing	✓		✓		✓	✓		✓
	High-level waste storage	✓		✓			✓		✓
	Fuel fabrication	✓		✓		✓			
	Plutonium finishing	✓	✓	✓					
	Nuclear fuel testing	✓	✓	✓		✓	✓		
	Environmental restoration	✓		✓		✓	✓		✓
INEEL	Reactors	✓	✓				✓		✓
	Chemical processing	✓		✓		✓	✓		✓
	Waste storage and disposal	✓		✓		✓	✓		✓
	Environmental restoration	✓		✓		✓	✓		✓
Mallinckrodt, MO	Historically uranium and more recently Radiopharmaceuticals and radiochemicals	✓			✓		✓	✓	✓
Allied Chemical, Ill	Uranium conversion	✓				✓			
Y-12	Uranium enrichment	✓				✓			
	Weapons component manufacturing, disassembly and storage	✓	✓	✓		✓	✓		
	Waste management	✓		✓		✓	✓		
Metals and Control, MA	Uranium oils and fuel manufacturing	✓				✓			
NUMEC, PA	Nuclear fuel fabrication					✓			

Table 2. Matrix of Required Capabilities (continued)

Site	Category of Facilities	Exposure Settings/Scenarios							
		External gamma	External neutron	Plutonium, including other TRU	NORM (Ra/Th)	Uranium	Tritium	Thorium-232+ Progeny	Other Internal
Linde Ceramics, NY	FUSRAP	✓			✓				
Savannah River	Reactors	✓	✓				✓		✓
	Fuel reprocessing and material recovery	✓		✓		✓	✓		✓
	Plutonium processing		✓	✓					
	Tritium processing						✓		
	High- and low-level waste management, storage and disposal	✓		✓		✓	✓		✓
Combustion Engineering, CT	Fuel fabrication	✓				✓			
Nevada Test Site	Weapons testing	✓	✓	✓		✓	✓		✓
	Neutron and gamma ray interaction studies	✓	✓						
	Reactors	✓	✓				✓		✓
	Low-level waste management and disposal	✓		✓		✓	✓		✓
Maywood, NJ	FUSRAP	✓			✓				
Harshaw Chemical, OH	Uranium conversion	✓				✓			

Table 2. Matrix of Required Capabilities (continued)

Site	Category of Facilities	Exposure Settings/Scenarios							
		External gamma	External neutron	Plutonium, including other TRU	NORM (Ra/Th)	Uranium	Tritium	Thorium-232+ Progeny	Other Internal
Rocky Flats	Weapons components production	✓	✓	✓		✓	✓		
	Plutonium recovery and purification			✓					
LANL	Weapons research	✓	✓	✓		✓	✓		✓
	Plutonium processing			✓					
	Nuclear fuel reprocessing	✓		✓		✓	✓		✓
	Polonium and actinium processing								✓
WR Grace, TN	Rare earth metal facility	✓			✓				
Pantex, TX	Nuclear weapons assembly, maintenance, and disassembly	✓	✓	✓		✓	✓		
Lawrence Livermore, CA	Material test accelerator	✓	✓	✓		✓	✓		✓
	Nuclear weapons research	✓	✓	✓		✓	✓		✓

Table 3. Personnel Assigned to the Sample Task 2 Cases

1 st Quarter Site	2 nd Quarter Site	3 rd Quarter Site	4 th Quarter Site
Hanford	Y-12	Savannah River	Rocky Flats
INEEL	Metals and Controls, MA	Combustion Eng., CT	LANL
Mallinckrodt, MO	NUMEC, PA	Nevada Test Site	WR Grace, TN
Allied Chemical, IL	Linde Ceramics, NY	Maywood, NJ	Pantex, TX
		Harshaw Chemical, OH	Lawrence Livermore, CA

2.0 TECHNICAL APPROACH

The advanced reviews for the 20 cases delineated in Sample Task 2 will be performed in accordance with the SOPs provided in Section 3 and Appendix C to Volume 1 (Technical Proposal), which describe the procedures and checklists that will be used to perform reviews of the data collection process, claimant-interview reviews, external and internal dose-reconstruction reviews, reviews of the relevant portions of NIOSH procedures/methods for conducting the dose reconstruction, worker-profile reviews, and site-profile reviews. **Your attention is directed especially to Appendix C of Volume 1, which provides highly detailed checklists, commentary, and sign-off forms for both basic and advanced reviews. These forms represent the technical underpinning of all basic and advanced reviews that will be performed on this project.**

The output of these reviews will be reports that address items A, B, and C of Attachment F of the solicitation. Our work products will also include completed audit forms with accompanying text that provides the following:

- The degree to which the audit concurs with the reconstructed doses and the IREP input distributions provided in the administrative record and other material provided by NIOSH
- A discussion of areas where the dose reconstruction for each individual case could be improved

- Areas where the overall dose reconstruction process could be improved

All audits will be documented and electronically filed in an approved relational database-management system, and each inspection and audit finding will be accessible according to individual claim, inquiry identification numbers, or any other field in the database.

Review Data Collection

SC&A will use the following procedure to determine:

- (1) if NIOSH received all requested data for the DOE or AWE site from any relevant source or repository, and
- (2) whether the data used by NIOSH for the case were adequate to make a determination with regard to probability of causation.

The first step in the audit will be to confirm that the checklist in Table 4 (or the equivalent) was in fact completed by NIOSH. This checklist is defined as a mini-review that establishes threshold criteria for use in determining whether the claim package can be docketed within our system. We have adopted this mini-review approach based on the methods used by the U.S. Nuclear Regulatory Commission for accepting regulatory products (such as safety analysis reports and other types of license applications) for docketing and formal review. It is assumed that this first step is required to be performed by NIOSH as part of the requirements set forth in 42 CFR 82. If these steps were not taken by NIOSH, it would be inappropriate to docket the TORP and continue the audit.

Table 4. Quality Assurance Checklist No. 1 for Data/Records Entry

The following form will be used for docketing claims packages for auditing:

Claim No.: _____

Inspection No.: _____

Name of Inspector: _____

Name of Data Entry Personnel: _____

Date of Inspection: _____

Location of Inspection: _____

QA Manager Sign-off/date: _____

Data Entry Personnel Sign-off/Date: _____

Data Entry Manager Sign-off/Date: _____

Performance Objective Metric	Method	Pass/Fail
Was claim or inquiry date-stamped on day of arrival?	Check if post mark date corresponds with date stamp	
Was claim or inquiry entered into the case file database management system within 7 calendar days of arrival?	Compare date stamp with log in date in database	
Was the electronic or hard copy of the data or record entered correctly into the database?	Judgment as to the completeness and accuracy of the data/record as entered	
Were hard copies of claims or inquiries filed in accordance with approved SOPs, including Privacy Act and security requirements?	Determine if the hard copies are physically located in the designated file as required to meet filing, privacy, and security requirements.	
Were the hard copy and electronic data and records returned to the NIOSH in accordance with approved SOPs?	Follow up with NIOSH to confirm receipt of returned files	
Do the data/records entry personnel meet the education, training, and experience requirements as required by the project?	Check training and qualifications records	
Do the data/records entry personnel meet the conflict of interest avoidance requirements as required by the project?	Check COI requirements and personnel background	
Is access to the electronic and hard copy files secured?	Check to ensure that approved access controls are in place, including controls over the transmittal and reproduction of the material.	

Table 4. Quality Assurance Checklist No. 1 for Data/Records Entry (continued)

Performance Objective Metric	Method	Pass/Fail
Did data entry employ double blind procedures to ensure data entry quality?	Check the double blind entry files.	
Have back-up files been established at a secure physically separated location?	Check to determine that back-up files exist at a physically separate and secure location.	
Have unambiguous linkages been established between scanned files and their corresponding hard copies?	Check for ability to find hard copies of scanned records.	
Comments:		

Assuming that the claimant package passes the mini-review, it will then be docketed and be reviewed with respect to the procedure to review data collection, given above.

With respect to the first step in the procedure to review data collection, we will review all correspondence between the Department of Labor and DOE regarding written requests for information in accordance with 20 CFR Part 30 and 42 CFR Part 82.10, and any additional records compiled by NIOSH relevant to internal and external exposures to ionizing radiation, including exposures from medical screening x rays that were required as a condition of employment.

At this point in the review process, no judgment will be made regarding the adequacy of the records. We will simply check (1) NIOSH correspondence requesting records, (2) correspondence that transmits those records, and/or (3) correspondence that provides for reasonable closure regarding the request for records. Reasonable closure is defined as correspondence that documents that the requested records either exist or do not exist. We expect that there will be occasions where one party believes that the requested records were not provided, while the other party believes that the requested records were in fact provided. These types of disputes can arise due to a breakdown in communication, usually based on judgments regarding what constitutes or does not constitute the composition of a given category of record. We will make judgments regarding these matters and incorporate our findings into the audit record.

During the second step in the data collection review procedure, we will follow the guidance provided in 42 CFR Parts 82.15, 16, and 17. In this regard, we will review the record to determine whether NIOSH evaluated and documented the completeness and adequacy of the individual's monitoring data as required by Part 82.15 (a) and (b), add monitoring data as per part

82.16, and supplement or substitute data as per Part 82.17. At this point in the review process, we will simply check that the record indicates that the tests for adequacy as delineated in Part 82.15, 16, and 17 were, in fact, performed and documented. This will be a pass/fail evaluation. The next step in the process will determine whether the collected data were adequate to make a determination regarding probability of causation. When the external and internal dosimetry records are complete and internally consistent based on inspection of the claimant's occupational exposure records and worker interview records, or if gaps/inconsistencies can be resolved with co-worker records, worker profile databases, and/or site profile databases (including area and process monitoring records), one can assume the records are adequate for performing probability of causation calculations. However, there will be circumstances in which the records compiled under 42 CFR Parts 82.15, 16, and 17 will be incomplete and/or contradictory and, based on this initial document review, it appears that these data limitations would prevent the completion of a dose reconstruction. When these circumstances arise, we will withhold judgment regarding the adequacy of data until the entire dose reconstruction process has been reviewed.

After review of the entire individual dose reconstruction, a special meeting will be held to reassess the adequacy of the data used for determination of doses. The meeting will be recorded and a consensus judgment will be made, including minority opinions, and the judgments will be fully documented and transparent. The basic decision criteria that will be used to make these determinations will be identical to those used to evaluate SEC petitions. In both cases, the underlying decision criterion will be the inability to compile the input data required to run IREP. In many cases, though dosimetry data are lacking, overwhelming circumstantial evidence (e.g., worker profile and site profile databases) may indicate that exposures could not have been large enough to result in a probability of causation of 0.5. Under these conditions, we would conclude that the data are adequate to make a determination with regard to probability of causation. However, if dosimetry data are lacking, but circumstantial data, which were not considered in the dose reconstruction, indicate that the potential existed for substantial exposures, we would conclude that the data are not adequate to develop input distributions for IREP (using OCAS guidelines), and, therefore, not adequate to make a determination with regard to probability of causation.

Review Interview and Documentation Provided by Claimant

This part of the audit will involve a two-step process:

- (1) Review of the adequacy of the standardized claimant interview form from the perspective of the claimant exposure records, worker profiles, and site profiles.

The purpose of this review will be to determine if the form requests information that is adequate and sufficient as it relates to the issues attendant to the particular claim. Section 3 of Volume 1 (Technical Proposal) presents the methods that we will use to review the adequacy of the claimant interview forms as they apply to a particular case. A report will accompany this review and assign a pass/fail to this review.

- (2) The completed form will be reviewed for completeness, internal consistency, and compatibility with other claimant records, and with NIOSH worker profile and site profile databases. Unlike basic reviews, advanced reviews will always include a review of site and worker profiles.

Using the checklist provided in Section 3 and Appendix C of Volume 1 (Technical Proposal), we will determine whether NIOSH appropriately addressed all of the reported work history and events represented by the claimant including, but not limited to, incidents or occurrences, actual monitoring practices, and work practices. Areas of incompatibility will be identified and documented. A plan will then be put into place to achieve closure on incompatibilities. Unresolved incompatibilities will be documented and carried through the audit process in order to evaluate whether these incompatibilities could affect the outcome of the dose reconstruction in a substantive manner (e.g., have the potential to result in a reversal of an adjudicated decision).

Review of Internal/External Dose Estimates and NIOSH Dose Reconstruction Procedures/Methods

Internal and external dose estimates as well as relevant portions of NIOSH procedures and methods for reconstructing dose for the case will be reviewed in accordance with the procedures and checklist provided in Appendix C of Volume 1 (Technical Proposal) for external and internal exposures.

Up until this point, the review process is similar to the basic review described in Volume 2, which involves the completion of checklists and inspections to determine and document whether the dose reconstructions and supporting data are reasonable, internally consistent, and were performed, documented, and completed in accordance with approved procedures, as delineated in OCAS-IG-001 and -002.

The advanced review includes all the steps that comprise the basic review. However, it will also include research that extends beyond the records and information provided with the claims package and go into NIOSH worker profiles and relevant portions of the site profiles, including selected source documents that were not necessarily provided as part of the claim package.

The sections that follow describe our approach to performing the additional tasks delineated in the solicitation for an advanced review. Though each task is addressed separately, the investigations performed in each task area are in fact highly integrated activities; i.e., it is the juxtaposition of the information contained in the administrative record, the input to IREP, the worker and site profiles, and interview records that will provide insight into the quality and reliability of the dose reconstruction (and associated adjudicated decision regarding compensation).

2.1 Review of Data Gathering

The administrative record accompanying each case required to be reviewed under a task order issued under this contract will be reviewed for completeness with regard to the provisions of 42 CFR 82.13 and .14. We will use these sections of Part 82 as a checklist to determine how much of this information, as applicable to the claim, is provided in the administrative record. Based on our review of the worker profile and site profile, as discussed below, a determination will be made regarding the adequacy of the administrative record in terms of its accuracy and completeness with respect to characterizing the claimant's historical exposures. Areas where the administrative record is incomplete, or appears to be in error or incompatible with other information contained within the record or with the claimant's worker profile and the site profile, will be identified and documented.

For the information that is provided in the administrative record, we will determine the degree to which this information was appropriately incorporated into the dose reconstruction and used as input into IREP. For the information that is found to be lacking, in error, or incompatible with other information in the record, a plan will be prepared that will accomplish the following objectives:

- (1) Determine the importance of the missing or erroneous information, or incompatibilities among the information, to the dose reconstruction, and
- (2) If found to be important, we will prepare and implement a plan to fill in the record, correct the errors, and/or resolve the incompatibilities. The plan will, of course, be highly specific to each case. However, the plan could include additional requests for information and possibly interviews with DOE and DOE contractor personnel near the sites.

2.2 Review of Work History Interview and Documentation Provided by Claimant

The advanced review will be similar to the basic review and use the procedures and forms described in Section 3 and Appendix C of Volume 1 (Technical proposal). However, in the advanced review, areas of incomplete information and incompatibilities with the dose reconstruction and worker and site profiles will be identified. For the information that is found to be lacking, in error, or incompatible with other information in the record, a plan will be prepared that will accomplish the following objectives:

- (1) Determine the importance of the missing or erroneous information, or incompatibilities among the information, to the dose reconstruction (and the adjudicated decision if the Board requests that we explicitly address this issue), and
- (2) If found to be important, we will prepare and implement a plan to fill in the record, correct the errors, and/or resolve the incompatibilities. The plan will, of course, be highly specific to each case. However, with the approval of the Board, the plan may include followup telephone conversations with claimants and

claimant representatives, possible visits with the claimants and claimant representatives, and follow up with co-workers.

A record of these findings and follow-up activities will be made part of the audit record and the importance of the findings to the overall dose reconstruction process will be described and discussed.

2.3 Review of Internal and External Dose Estimates

The advanced reviews will be similar to the basic reviews and use the procedures and forms described in Section 3 and Appendix C of Volume 1 (Technical proposal). However, in the advanced review, areas of incomplete information and incompatibilities with the interview record and worker and site profiles will be identified. For the information that is found to be lacking, in error, or incompatible with other information in the record, a plan will be prepared that will accomplish the following objectives:

- (1) Determine the importance of the missing or erroneous information, or incompatibilities among the information, to the dose reconstruction and
- (2) If found to be important, we will prepare and implement a plan to fill in the record, correct the errors, and/or resolve the incompatibilities. The plan will, of course, be highly specific to each case and may include follow-up interviews with original dose reconstructors. In addition, visits may be scheduled and implemented to interview co-workers, other DOE personnel, and inspect primary records that may not have been part of the administrative record.

A record of these findings and follow-up activities will be made part of the audit record and the importance of overall dose reconstruction process will be described and discussed.

2.4 Work Hour Allocation and Schedule of Deliverables

Table 5 presents the work hour allocation by category of personnel for the 20 cases that comprise Sample Task 2. Since the sample task does not include supporting records, we have not attempted to assign any specific category of specialty investigators to the tasks (i.e., we have not assigned work hours to specific scientific specialties as delineated in the box at the bottom half of Exhibit 2-1 of Volume 1). However, in anticipation that each case will require some level of specialty investigation, we assigned about 10 percent of the level of effort to a non-designated specialty investigator. We estimate that, on average, approximately _____ will be required to complete each advanced review. This includes the review itself, and all management, quality assurance, and records management activities. This would appear to be a relatively low estimate for the average level of effort per advanced review. However, we believe that most advanced reviews will be relatively simple and likely similar to other cases, while only a few will be complex, resulting in a relatively low overall average for each advanced review.

With regard to schedule of deliverables, we have assembled the teams (see Table 3) such that all deliverables for each quarter will be delivered within 1 to 2 months following authorization to proceed.

Table 5. Work Hour Allocation for Sample Task 2

Personnel	20 Advanced Reviews (Work Hours)
Project Manager	
QA	
Records Management	
Dose Reconstruction Dose Reconstruction Team	
Worker Profiles	
Interview Records Dose Reconstruction Team	
Site Profiles (if required)	
Uncertainty Analysis	
Specialty Investigator	
Total For Sample Task 2	