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UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D.C. 20555-0001

DEC 22 1999

21st Century Industries, Inc.  
Attn: Sam McDowell  
444 North Frederick Ave., Suite 317  
Gaithersburg, MD 20877

SUBJECT: TASK ORDER NO. 5 ENTITLED "UPDATING DESIGN CONSIDERATIONS FOR  
MINIMIZING RESIDUAL HOLDUP OF SNM" UNDER CONTRACT NO. NRC-02-  
98-008

Dear Mr. McDowell:

In accordance with Section G.5, Task Order Procedures, of the subject contract, this letter  
definitizes Task Order No. 5. This effort shall be performed in accordance with the enclosed  
Statement of Work.

Task Order No. 5 shall be in effect from December 27, 1999 to September 30, 2000. The total  
cost plus fixed fee for this task order is \$41,955, of which the amount of \$39,957 represents the  
reimbursable costs, and the amount of \$1,998 represents the fixed fee. Funds in the amount of  
\$41,955 are obligated to fully fund this task order.

Accounting data for this task order is as follows:

B&R No.: 05015201105  
BOC: 252A  
JCN.: J5247  
APPN No.: 31X0200  
FFS: 5000R027  
OBLIGATED AMOUNT THIS ACTION: \$41,955

The following individual(s) are considered to be essential to the successful performance of the  
work hereunder:

James Lovett, William Murphy

The Contractor agrees that such personnel shall not be removed from the effort under the task  
order without compliance with Contract Clause H.2, Key Personnel.

Your contacts during the course of this task order are:

Technical Matters: Donna Umbel - Project Officer  
301/415-7819  
Thomas Pham- Task Order Technical Monitor  
301/415-8154

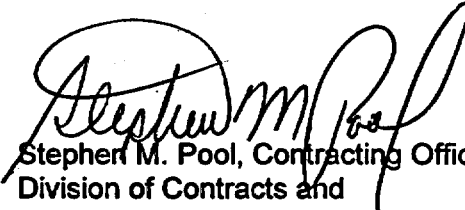
601/415-8154

PDR CONTRACT NRC-02-98-008

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Any contractual matters should be referred to me on 301/415-8168. The issuance of this task order does not amend any terms or conditions of the subject contract. Please indicate your acceptance of this task order by having an official who is authorized to bind your organization, execute three copies of this document in the spaces provided below and return two fully executed copies to me. You should retain the third copy for your records.

Sincerely,

  
Stephen M. Pool, Contracting Officer  
Division of Contracts and  
Property Management

Enclosure:  
As stated

ACCEPTED T.O. #5 NRC-02-98-008

Arnold C. T. Williams

NAME

Exec. Vice President

TITLE

12-27-99

DATE

## TASK ORDER STATEMENT OF WORK

### Updating Design Considerations for Minimizing Residual Holdup of SNM

#### Task Area 2 To#5

##### 1. Objective

The objective of this task is to update Regulatory Guide 5.8, Design Considerations for Minimizing Residual Holdup of SNM in Drying and Fluidized Bed Operations; and Regulatory Guide 5.25, Design Considerations for Minimizing Residual Holdup of SNM in Equipment for Wet Process Operations, to reflect applicable new information, codes, specifications, methodologies, current NRC standards, and other generic guidance.

##### 2. Level of Effort (LOE)

For Planning purposes, it is estimated that each aspect of this task will take between 0.12 and 0.13 full time equivalent (FTE) to complete each Regulatory Guide, for a total of 0.25 FTE. The estimated LOE for revisions to these Regulatory Guides is 250 hours for each, for a total of 500 hours.

##### 3. Period of Performance

The period of performance for the work specified in this task order shall commence on the effective date of this task order and shall continue for approximately 9 months.

##### 4. Scope of Work

The contractor shall provide technical assistance to NMSS/FCSS/LIB in developing revisions to the following Regulatory Guides:

- a. Regulatory Guide 5.8, Design Considerations for Minimizing Residual Holdup of SNM in Drying and Fluidized Bed Operations
- b. Regulatory Guide 5.25, Design Considerations for Minimizing Residual Holdup of SNM in Equipment for Wet Process Operations

The scope of this effort involves the following:

- a. Update references to current regulations, particularly 10 CFR Parts 70 and 74.
- b. Update the guides to reflect applicable new information, codes, specifications, methodologies, and consensus standards to describe an acceptable and reasonable approach to comply with pertinent NRC requirements.
- c. Identify and assess the cost implications of the proposed changes to each Regulatory Guide.

## 5. NRC-Furnished Materials

The NRC shall provide the contractor with both paper and electronic copy formatted in WordPerfect 8 (if available) of:

- a. Regulatory Guide 5.8, Design Considerations for Minimizing Residual Holdup of SNM in Drying and Fluidized Bed Operations
- b. Regulatory Guide 5.25, Design Considerations for Minimizing Residual Holdup of SNM in Equipment for Wet Process Operations
- c. Title 10, Parts 70 and 74 of the US Code of Federal Regulations

## 6. Meetings and Travel

All travel associated with this task order shall be approved in advance. All such travel shall result in trip reports, which may be issued separately or as part of the next monthly letter status report. Copies of separately issued trip reports shall be submitted within 15 days of the completion of travel. It is estimated that a minimum of three trips to NRC Headquarters will be needed for the purpose of: (1) discussions with NRC on work requirements of each task order, before commencing work; and (2) discussions with NRC staff on development of contractor products as circumstances warrant. When practical, telephone conference calls shall be held in lieu of meetings at NRC Headquarters.

## 7. Deliverable Products / Schedule

The contractor shall prepare all deliverables in WordPerfect 8, unless directed otherwise, and submit this to the NRC with a paper and disk copy as detailed in the schedule below. Draft products will be noted as such by use of a watermark. Final technical reports shall be presented to the NRC in "camera-ready" form and ready for NRC publication.

- a. Within six weeks after issuance of this task order, the contractor shall provide the NRC with a draft outline of the proposed format and content for the revised guidance documents on Regulatory Guides 5.8 and 5.25.
- b. Within four weeks after receipt of (a) above, the NRC shall review and provide comments to the contractor.
- c. Within four weeks after receipt of NRC comments in (b) above, the contractor shall provide final document outlines to the NRC.
- d. Within three weeks after receipt of (c) above, the NRC shall review and provide comments to the contractor
- e. Within six weeks after completion of the final outlines in (d) above, the contractor shall provide the NRC with the first draft of the documents identified for development.

- f. Within six weeks after NRC receipt of the draft documents in (e) above, the NRC will provide comments to the contractor.
- g. Within five weeks after contractor receipt of NRC comments in (f) above, the contractor will provide the NRC with revised draft documents, including the cost implications.
- h. Within four weeks after NRC receipt of the revised draft documents in (g) above, the NRC will provide comments to the contractor.
- i. Within five weeks after contractor receipt of NRC comments in (h) above, the contractor will provide the NRC with the final documents.

#### MONITORS

The NRC Task Order Technical Project Manager (TOTPM) for this task order is Thomas Pham, (301) 415-8154. The Project Officer for this contract and associated task work orders is Ms. Donna Umbel.