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WM-16(2)

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WM-RES
WM Record File
D1021
NWCT

WM Project 10, 11, 16
Docket No.

PDR ✓
LPDR ✓ (B, N, S)

Mr. Mark J. Logsdon, Project Manager
Nuclear Waste Consultants, Inc.
8341 So. Sangre de Cristo Road
Suite 14
Littleton, Colorado 80127

Distribution:

(Return to WM, 623-SS)

Dear Mr. Logsdon:

I have received your monthly progress report for August dated September 14, 1987. This report describes the status of Nuclear Waste Consultants' technical assistance under Contract No. NRC-02-85-009. Overall, progress made to date under this contract is satisfactory.

The Division of Contracts has notified me that this contract will be modified by implementing a no cost extension to cover the period between the end of the fiscal year and the time at which the FY88 appropriations are available for obligation. Carry-over funds are adequate to maintain required levels of effort through this period. Note that regulations preclude formal "costed" extensions unless it can be certified that funds are available.

I have no further comments with respect to your monthly progress report.

The action taken by this letter is considered to be within the scope of the current contract NRC-02-85-009. No changes to costs or delivery of contracted products are authorized. Please notify me immediately if you believe that this letter would result in a change to cost or delivery of contracted products.

Sincerely,

131

Jeffrey A. Pohle, Project Officer
Hydrology Section
Technical Review Branch
Division of High-Level Waste Management
Office of Nuclear Material Safety
and Safeguards

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ATTACHMENT A

MONTHLY REPORT - August, 1987

ATTACHMENT A - FINANCIAL AND ADMINISTRATIVE REPORT

A1.0. FY 87 COST EXPENDITURES TO DATE

Monthly costs for August, 1987 were \$27,180.89. The breakdown by tasks is as follows:

| TASK | PRIOR | CURRENT | TOTAL | FY 87 BUDGET | PERCENT |
|-------|-----------|----------|-----------|--------------|---------|
| 1 | \$95,331 | \$ 6,963 | \$102,294 | \$107,062 | 95.6 |
| 2 | \$64,341 | \$ 1,541 | \$ 65,882 | \$ 89,155 | 73.9 |
| 3 | \$80,518 | \$ 6,005 | \$ 86,523 | \$117,669 | 73.5 |
| 5 | \$29,227 | \$ 1,298 | \$ 30,525 | \$175,126 | 17.4 |
| NWC | \$175,151 | \$11,374 | \$186,525 | \$212,605 | 87.7 |
| TOTAL | \$444,568 | \$27,181 | \$471,749 | \$701,617 | 67.2 |

NOTE: 1. BUDGETED FIGURES FOR FY 87 BASED ON DATA IN SEPTEMBER, 1986 MONTHLY STATUS REPORT, THE BEST AND FINAL OFFER, AND MODIFICATION 2

2. BUDGET FIGURE FOR NWC INCLUDES COSTS ASSOCIATED WITH NWC STAFF INVOLVEMENT IN TASK 2 TECHNICAL ACTIVITIES

September 14, 1987

Expenses to date are commensurate with the anticipated expenditures for each task. The overall budget is well within annual and total projections, and no impact to overall estimates of cost are expected from this month's activities. At the end of August, 1987, the contract is at approximately 80% of the total estimated contract cost at 96% of the current period of performance. Please note that NWC anticipates that the contract will approach 85% of its funding limit during September, 1987, at currently projected levels of activity. Additionally, please note that all effort will be suspended as of September 26, 1987 unless a written modification is signed by all necessary parties prior to that date.

A2.0 LEVEL OF EFFORT FOR KEY PERSONNELA2.1 Time Expenditures FY 87 (Hours)

| PERSON | MONTH | PRIOR | CUMULATIVE |
|-----------|-------|--------|------------|
| Brown | 10 | 575.5 | 585.5 |
| Logsdon | 64.5 | 1092.5 | 1157 |
| McWhorter | 2 | 82 | 84 |
| Davis | 36 | 498.5 | 534.5 |
| Galloway | 16.2 | 548.5 | 564.7 |
| Stephens | 7 | 169.6 | 176.6 |
| Minier | 71 | 889.5 | 960.5 |

A2.2 Cost Expenditures FY 87 (Dollars)

| PERSON | MONTH | | CUMULATIVE | |
|-----------|--------|--------|------------|--------|
| | DIRECT | TRAVEL | DIRECT | TRAVEL |
| Brown | 600 | 1138 | 35,130 | 5040 |
| Logsdon | 2580 | | 46,280 | 2942 |
| McWhorter | 140 | | 5,880 | 1054 |
| Davis | 2160 | | 32,070 | 1254 |
| Galloway | 876 | | 30,441 | 1361 |
| Stephens | 404 | | 10,026 | 1355 |
| Minier | 3355 | | 45,069 | 1457 |

A2.3 Notes

The total level of effort directed to management tasks in August remained at approximately 10% of the total effort. With the exception of months in which there are scheduled project management meetings with the NRC Staff, Nuclear Waste Consultants anticipates that subsequent effort associated with purely project management activities versus effort associated with technical work should remain at approximately 10% of total effort, with the bulk of that project management effort directed to quality assurance matters.

Total costs associated with the tasks are summarized in Section 1.0 above. Details are provided in the August voucher (NWC Communication No. 197).

A3.0 PROJECTIONS OF COSTS (DOLLARS)A3.1 Current Cost and Near-Term Projection

| Current Period ----- | Year-to- Date ----- | Contract- to-Date ----- | Sept 1987 ----- | Remainder Contract ----- |
|----------------------------|---------------------------|-------------------------------|-----------------------|--------------------------------|
| \$27,181 | \$471,749 | \$907,480 | \$61,419 | \$229,869 |

A4.0 PROBLEMSA4.1 Extension of the Current Contract

NWC has received the Project Officer's letter of April 15, indicating his intention of recommending extension of the current contract under the Government's option, and the Contracting Officer's Letter of July 15, providing the formal notification of intent to extend. NWC concurs with the Project Officer that the Statement of Work is written in such a fashion that it will not be difficult to negotiate future costs, based on consistent level of effort. Therefore, based on the NRC Project Officer's letter, NWC has informed its subcontractors that they should anticipate that the contract will be extended into FY 88 at a level of effort essentially consistent with that for FY 86 and FY 87. If the NRC Project Officer's letter is not to be read in this way, please notify me immediately. NWC has submitted its cost estimate for FY 88 in an August 7, 1987, express package to the Contract Administrator.

As of close of business on September 14, 1987, NWC has not received a contract modification to extend the current contract. While there is sufficient money available to carry over into FY 88 for approximately 3 months at the current levels of expenditure, please note that the current period of performance ends at close of business on September 25, 1987. Pursuant to Federal procurement regulations, no work will be conducted by NWC or its subcontractors after September 25, 1987 unless a fully executed modification to the contract is in place by that time.

ATTACHMENT B

MONTHLY REPORT - August, 1987

ATTACHMENT B - TECHNICAL STATUS AND PROJECT SUMMARY

B1.0. NARRATIVE DESCRIPTION OF WORK COMPLETED IN THE REPORTING PERIOD

Work completed under the contract during August included:

1. Management. Management of subtasks associated with the project. Preparation of the project voucher and the monthly progress report for August, 1987. Technical and managerial reviews of subcontractor products and on-going QA interactions with Water, Waste and Land, Terra Therma, Inc., and Daniel B. Stephens and Associates. Preparation and review of Task Description Summaries. Discussions with NRC Staff and subcontractors concerning technical reports and Task 5 reports related to GWTT. Discussions with Project Officer and Contract Administrator concerning extension of contract.
2. Subtask N.1. Collection and review of documents. Water, Waste and Land (WWL), Terra Therma (TTI) and Daniel B. Stephens and Associates (DBS) have completed Subtasks 1.1, 2.1 and 3.1 with the submission of the letter reports on NNWSI, BWIP and Salt (Palo Duro Basin) Site Familiarization, respectively. The subtask is 100% complete. Each of the three site teams has continued to review critical materials identified by the NRC site leads, as directed by the NRC Project

Officer; reading and review of these materials will be allocated against Subtasks N.2 - N.5, as appropriate, in the future.

3. Subtask N.2. Development and management of data inventories, including the development of a bibliographic data base and the development of a quantitative data base for hydrogeologic data. NWC and its subcontractors are implementing the data bases. The WWL, TTI and DBS reports on the data inventory and management systems (Subtasks 1.2, 2.2 and 3.2) were submitted as NWC Communications 34, 30, and 53, respectively. WWL, TTI, and DBS have submitted semi-annual updates for Subtasks 1.2, 2.2, and 3.2 (NWC Communications No. 82, 93, 106, 136, 141, and 154). Final semi-annual update reports were submitted for Subtasks 1.2 and 2.2 (NWC Communication Nos. 191 and 196). The bibliographic data bases, which were documented for all three sites in the respective Site Familiarization Reports, are kept updated by the task teams. The subtask is 100% complete at the end of August, 1987. The subcontractors will continue to maintain their data systems in anticipation that the Government will exercise its option to extend the current contract.
4. Subtask N.3. DBS and NWC held discussions with NRC Staff concerning a potential data review of the SRPO core collection in Austin, TX. WWL submitted its review of the hydrologic aspects of the NNWSI

exploratory shaft program (NWC Communication No. 194). The subtask is 96% complete at the end of August, 1987.

5. Subtask N.4. The WWL letter report for Subtask 1.4 was transmitted as Communication No. 45. The TTI report on BWIP was transmitted as Communication No. 52. The DBS report on Salt was submitted as Communication No. 63. The WWL Subtask 1.4 update was transmitted to NRC as NWC Communication No. 105. TTI's Subtask 2.4 update report was submitted as NWC Communication No. 108. DBS's update report was submitted as NWC Communication No. 117. The most recent updates by WWL, TTI and DBS have been submitted to the NRC as NWC Communication Nos. 152, 155, and 163, respectively. The subtask is 96% complete in terms of contract deliverables. WWL will submit a conceptual model report update in September under the terms of the current contract, though all teams will continue to compile and evaluate information relevant to this subtask in preparation for reviewing Site Characterization Plans and anticipation of the extension of the contract into FY 88.
6. Subtask N.5. WWL has completed the first three mini-reports under Subtask 1.5, submitted as NWC Communication No. 66; TTI has completed five mini-reports under Subtask 2.5, submitted as NWC Communication No. 78; DBS has completed a series of five mini-assessments under Subtask 3.5, submitted as NWC Communication No. 88. WWL, TTI and DBS have submitted update reports including new

mini-reports (NWC Communications Nos. 122, 126, 135, 165, 174, and 175). DBS submitted its final, record-copy report as NWC Communication No. 190. The subtask is 100% complete at the end of August, 1987 in terms of contract deliverables. No further updates of the Subtask N.5 reports will be produced under the terms of the current contract, though the subcontractors are continuing to work on technical reports (including WWL's cooperative effort with Williams and Associates concerning testing methodologies for the unsaturated zone). The completed reports will be transmitted to the Staff as they are produced and reviewed and effort will be allocated to Subtask N.5, as appropriate. The continuation of these efforts will contribute to the Staff's preparation for review of SCP's and will allow for continuity of effort into FY 88 with no impact on schedule or cost, under the assumption that the NRC will choose to extend the current contract.

7. Task 5. NWC participated in a July meeting in Silver Spring to address documentation of the Staff's positions on definitions and methods of implementing the GWTT performance objective. A trip report was submitted as NWC Communication No. 187. As discussed in the last Monthly Status Report, NWC has suspended all activities on the topical reports on uncertainty until we receive direction from the Project Officer. DBS has begun preliminary bibliographical work on parameter estimation techniques in support of the Staff's numerical experiment on GWTT. Approximately 17% of the FY 87 funding for the subtask has been expended at the end of August, 1987.

B2.0 PROBLEMS ENCOUNTERED IN THE REPORTING PERIOD

No technical problems have arisen during August, 1987. NWC notes that all three site teams have now received instructions from the NRC Site Leads concerning technical reports under Subtask N.5. The NWC team wishes to express its appreciation for the review and comment provided by the Staff on the TDS's.

B3.0 ANTICIPATED PROJECT ACTIVITIES DURING SEPTEMBER, 1987

The Site Familiarization Subtasks are complete. Additional documents will be read by key team members, and document-control data bases will be updated as parts of other subtasks which have continuing activities.

The site teams are continuing to maintain their data management systems in anticipation of extension of the contract into FY88.

All site teams continue to review the literature to determine whether there are additional documents that need formal review. NWC and DBS anticipate the possibility of a site visit to Austin, Texas to inspect geologic cores from the Palo Duro Basin.

The information in the N.4 Conceptual Model reports will be maintained. NNWSI Conceptual Model update report will be submitted in September. No other updates are scheduled during the current period of performance of the contract.

All three site teams are proceeding with their analytical and numerical evaluations under Subtasks N.5. Additional technical reports will be prepared and submitted. NWC and its subcontractors anticipate that this work will contribute to the NRC's preparation for review of the Site Characterization Plans. NWC has suspended all resource commitments to SWIFT II until we receive written direction from the NRC Project Officer as to how the Staff anticipates using our modelers. Modelers from TTI and DBS anticipate

receiving direction from the NRC Project Officer on transfer of software, as discussed in NWC Communication No. 188.

NWC has completed its technical work to support the July meeting addressing the Generic Technical Position (or Regulatory Guide) on Groundwater Travel Time through participation in the meeting. We anticipate additional review and comment on this matter after the Staff prepares its draft documentation of the meeting. As discussed above, NWC has suspended all work on the topical report on uncertainty, pending further direction from the NRC Project Officer.

NWC is continuing to implement the project-specific QA program, through meetings and telephone conferences with each of the subcontractors by the Project Manager and the Project QA Director and through NWC review of the QA documents stipulated in the QA Plan. The NWC QA Director, Dr. Thomas Ivory, has performed QA audits. All documents submitted to NRC during August received technical and managerial reviews that meet the requirements of the NWC project-specific QA plan.

B4.0 RECOMMENDATIONS FOR FUTURE WORK

The newly assigned document review for BWIP, data management updates, and the numerical evaluations of Subtasks N.5 will keep us fully occupied during the upcoming month. Please note that the current period of performance ends on September 26, 1987, unless the contract is modified before that date.

NWC respectfully requests that the Staff identify the role(s) it intends for NWC and its subcontractors in the review of the so-called consultation drafts of the Site Characterization Plans at an early time. We are particularly concerned that the NWC role be identified in an unambiguous fashion in order to avoid some of the confusion subsequent to the Clifton GWT review of 1986. We, of course, hope and anticipate that we will have a substantive role in the review process, and we look forward to supporting the HLTR hydrology group throughout the SCP process.

As discussed in the last several status reports, NWC and WWL recommend that the NRC Staff establish a commitment from DOE to a Hydrology Data Review for NNWSI prior to receipt of the NNWSI SCP. On balance, we consider that a Data Review would be better preparation for reviewing the SCP than would a DOE-NRC Workshop, and we also hope that a data review could be arranged more expeditiously than could a Workshop. In light of the considerable amount of data that we have reason to believe has been collected by the DOE contractors at NNWSI since the work referenced in the FEA, we consider it essential that

the Staff and TA contractors have an opportunity to review the site data before attempting to review the plans for future work at the site.

B5.0 DESCRIPTION OF ADVANCES OR DELAYS IN THE SCHEDULE

Relative to an initiation of the project schedule based on the contract kickoff meeting of October 25, 1985, there has been no significant change in the anticipated schedule for the project activities or deliverables.

As pointed out in several places above, the period of performance for the current contract ends at close of business on September 25, 1987. Pursuant to Federal procurement regulations, no work will be conducted by NWC or its subcontractors after that date unless the contract is modified.

OCT 6 1987

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OFFICIAL CONCURRENCE AND DISTRIBUTION RECORD

LETTER TO: Mr. Mark J. Logsdon, Project Manager
 Nuclear Waste Consultants, Inc.
 8341 So. Sangre de Cristo Road
 Suite 14
 Littleton, Colorado 80127

FROM: Jeffrey A. Pohle, Project Officer
 Hydrology Section
 Technical Review Branch
 Division of High-Level Waste Management
 Office of Nuclear Material Safety
 and Safeguards

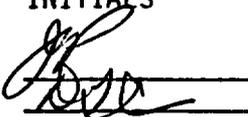
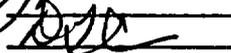
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 NRC-02-85-009 (FIN D1021)

DATE: October , 1987

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CONCURRENCES

| ORGANIZATION/CONCUREE | INITIALS | DATE CONCURRED |
|-----------------------|---|----------------|
| HLTR/JPohle/lw |  | 87/10/05 |
| HLTR/DChery |  | 87/10/05 |

original sent out 10/6/87