

ORDER FOR SUPPLIES OR SERVICES

PAGE OF PAGES

1 : 11

IMPORTANT: Mark all packages and papers with contract and/or order numbers.

BPA NO. NRC-DR-03-09-061

1. DATE OF ORDER AUG 29 2011		2. CONTRACT NO. (if any) GS-10F-0092J		6. SHIP TO:	
3. ORDER NO. NRC-T011		4. REQUISITION/REFERENCE NO. NRR-11-232 FAIMIS: 113429		a. NAME OF CONSIGNEE U.S. Nuclear Regulatory Commission	
5. ISSUING OFFICE (Address correspondence to) U.S. Nuclear Regulatory Commission Div. of Contracts Attn: Jennifer A. DeFino, 301-492-3637, Jennifer.DeFino@nrc.gov Mail Stop: TWB-01-B10M Washington, DC 20555		b. STREET ADDRESS Attn: Linda Yee, 301-415-3072, Linda.Yee@nrc.gov Mail Stop: O-13-C05 11555 Rockville Pike		c. CITY Rockville	
7. TO:		d. STATE MD		e. ZIP CODE 20852	
a. NAME OF CONTRACTOR ADVANCED TECHNOLOGIES AND LABORATORIES (ATL) INTERNATIONAL,		f. SHIP VIA N/A		8. TYPE OF ORDER	
b. COMPANY NAME		<input type="checkbox"/> a. PURCHASE		<input checked="" type="checkbox"/> b. DELIVERY	
c. STREET ADDRESS 555 QUINCE ORCHARD RD STE 500		REFERENCE YOUR Please furnish the following on the terms and conditions specified on both sides of this order and on the attached sheet, if any, including delivery as indicated.		Except for billing instructions on the reverse, this delivery order is subject to instructions contained on this side only of this form and is issued subject to the terms and conditions of the above-numbered contract.	
d. CITY GAITHERSBURG		e. STATE MD		f. ZIP CODE 208781437	
9. ACCOUNTING AND APPROPRIATION DATA B&R: 2011-x0200-20-11-4-148 JCN: J4282 BOC: 252A APPR NO: 31X0200.020 FAIMIS: 113429 DUNS: 827013467 NAICS: 541330 PSC: R425 OBLIGATE: \$22,000.00		10. REQUISITIONING OFFICE NRR			
11. BUSINESS CLASSIFICATION (Check appropriate box(es)) <input type="checkbox"/> a. SMALL <input checked="" type="checkbox"/> b. OTHER THAN SMALL <input type="checkbox"/> c. DISADVANTAGED <input checked="" type="checkbox"/> d. WOMEN-OWNED <input type="checkbox"/> e. HUBZone <input type="checkbox"/> f. SERVICE-DISABLED VETERAN-OWNED <input type="checkbox"/> g. WOMEN-OWNED SMALL BUSINESS (WOSB) <input type="checkbox"/> h. ECONOMICALLY DISADVANTAGED WOMEN-OWNED SMALL BUSINESS (EDWOSB)		12. F.O.B. POINT Destination			
13. PLACE OF a. INSPECTION Destination		14. GOVERNMENT B/L NO. N/A		15. DELIVER TO F.O.B. POINT ON OR BEFORE (Date) N/A	
b. ACCEPTANCE Destination				16. DISCOUNT TERMS N/A	

17. SCHEDULE (See reverse for Rejections)

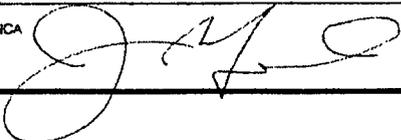
ITEM NO. (a)	SUPPLIES OR SERVICES (b)	QUANTITY ORDERED (c)	UNIT (d)	UNIT PRICE (e)	AMOUNT (f)	QUANTITY ACCEPTED (g)
	<p>Issuance of Task Order No. 011</p> <p>Title: Technical Assistance for the Safety Review of the License Renewal Application, Limerick Generating Station, Unit 1</p> <p>Current Task Order Cost Ceiling: \$47,630.46 Total Obligated Amount: \$22,000.00 Current Period of Performance: 09/01/11 - 09/30/12</p> <p>See Attachment #1 for Statement of Work</p> <p>See Clause A.4 for Contractor Acceptance</p>				See CONTINUATION Page	

18. SHIPPING POINT		19. GROSS SHIPPING WEIGHT		20. INVOICE NO.	
21. MAIL INVOICE TO:					
a. NAME Department of Interior / NBC NRCPayments@nbc.gov					
b. STREET ADDRESS (or P.O. Box) Attn: Fiscal Services Branch - D2770 7301 W. Mansfield Avenue					
c. CITY Denver		d. STATE CO		e. ZIP CODE 80235-2230	
SEE BILLING INSTRUCTIONS ON REVERSE				\$47,630.46	

17(h)
TOTAL
(Cont. pages)

17(i)
GRAND TOTAL

22. UNITED STATES OF AMERICA
BY (Signature)



23. NAME (Typed)
Jennifer A. DeFino
Contracting Officer

TITLE: CONTRACTING/ORDERING OFFICER

TEMPLATE - ADM001

SUNSI REVIEW COMPLETE

AUG 31 2011

ADM002

Table of Contents

A.1	PRICE/COST SCHEDULE	A-3
A.2	CONSIDERATION AND OBLIGATION	A-3
A.3	DURATION OF TASK ORDER	A-4
A.4	CONTRACTOR ACCEPTANCE OF TASK ORDER 011	A-4
SECTION B - GENERAL TERMS		B-1
B.1	FSS-BPA TERMS AND CONDITIONS	B-1
B.2	52.217-7 OPTION FOR INCREASED QUANTITY--SEPARATELY PRICED LINE ITEM (MAR 1989).....	B-1
B.3	COMPLIANCE WITH U.S. IMMIGRATION LAWS AND REGULATIONS (MAY 2002)	B-1

A.1 PRICE/COST SCHEDULE

Task Description	Labor Category	YR 3 Rate	YR 3 Hrs	YR 3 Costs	TOTAL HRs	TOTAL COSTS
Task 1: Peer Review of Audit Reports						
	PM/Facilitator (Makeig)					
	Principal II (Patel)					
	Principal I (Royal)					
	Principal I (Jackson)					
Local Travel						
ODCs (Conference calls, reproduction, etc.)						
G&A applied to travel and ODCs						
SUBTOTAL TASK 1						\$ 47,630.46
Task 2: Advisory Committee on Reactor Safeguards (ACRS) Support (Optional)						
Principal II (Patel)						
Travel (ACRS Meeting, 1 trip 2 days)						
ODCs (Conference calls, reproduction, etc.)						
G&A applied to travel and ODCs						
SUBTOTAL TASK 2						\$
Task 3: Atomic Safety and Licensing Board Panel (ASLBP) Support (Optional)						
Principal II (Patel)						
Travel (ASLBP Hearing, local travel for 2 days)						
ODCs (Conference calls, reproduction, etc.)						
G&A applied to travel and ODCs						
SUBTOTAL TASK 3						\$
Task Order 11 TOTALS						\$ 58,276.87

A.2 CONSIDERATION AND OBLIGATION

(a) The total current estimated ceiling for the services ordered, delivered, and accepted under this task order is \$47,630.46. This amount may be increased by exercising optional tasks 2 and/or 3 (see Price/Cost Schedule).

(b) The amount presently obligated with respect to this Task Order is \$22,000.00. This obligated amount may be unilaterally increased from time to time by the Contracting Officer by written modification to this contract. The obligated amount shall, at no time, exceed the Task Order ceiling as specified in paragraph (a) above. When and if the amount(s) paid and payable to the Contractor hereunder shall equal the obligated amount, the Contractor shall not be obligated to continue performance of the work unless and until the Contracting Officer shall increase the amount obligated with respect to this contract. Any work undertaken by the Contractor in excess of the obligated amount specified above is done so at the Contractor's sole risk.

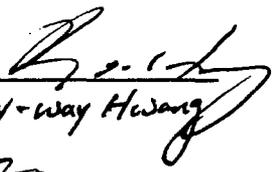
A.3 DURATION OF TASK ORDER

This Task Order shall commence on September 01, 2011 and will expire on September 30, 2012. The term of this Task Order may be extended to June 30, 2013 by the exercise of optional tasks 2 and/or 3 (see Price/Cost Schedule and attached Statement of Work).

A.4 CONTRACTOR ACCEPTANCE OF TASK ORDER 011

Acceptance of Task Order No. 011 should be made by having an official, authorized to bind your organization, execute two copies of this document in the space provided and return one copy to the Contracting Officer. You should retain the other copy for your records.

Accepted Task Order No. 011:


NAME Ray-way Huang

CEO
Title

8/29/2011
Date

SECTION B - GENERAL TERMS**B.1 FSS-BPA TERMS AND CONDITIONS**

This order is subject to the terms referenced in BPA # NRC-DR-03-09-061 and the General Services Administration (GSA) Federal Supply Schedule Contract # GS-10F-0092J.

B.2 52.217-7 OPTION FOR INCREASED QUANTITY--SEPARATELY PRICED LINE ITEM (MAR 1989)

The Government may require the delivery of the numbered line items, identified in the Schedule as an optional items, in the quantity and at the price stated in the Schedule. The Contracting Officer may exercise the option by written notice to the Contractor within 15 days. Delivery of added items shall continue at the same rate that like items are called for under the contract, unless the parties otherwise agree.

B.3 COMPLIANCE WITH U.S. IMMIGRATION LAWS AND REGULATIONS (MAY 2002)

NRC contractors are responsible to ensure that their alien personnel are not in violation of United States immigration laws and regulations, including employment authorization documents and visa requirements. Each alien employee of the Contractor must be lawfully admitted for permanent residence as evidenced by Permanent Resident Card Form I-551, or must present other evidence from the U.S. Department of Homeland Security/U.S. Citizenship and Immigration Services that employment will not affect his/her immigration status. The U.S. Citizenship and Immigration Services provides information to contractors to help them understand the employment eligibility verification process for non-US citizens. This information can be found on their website, www.uscis.gov.

The NRC reserves the right to deny or withdraw Contractor use or access to NRC facilities or its equipment/services, and/or take any number of contract administrative actions (e.g., disallow costs, terminate for cause) should the Contractor violate the Contractor's responsibility under this clause.

STATEMENT OF WORK

BPA NO: NRC-DR-03-09-061

TASK ORDER NO: 11

TITLE: Technical Assistance for the Safety Review of the License Renewal Application, Limerick Generating Station, Unit 1 and 2

JCN: J-4282

B&R NUMBER: 2011-X0200-20-11-4-148

NRC PROJECT OFFICER (PO): Linda Yee, 301-415-3072
Linda.Yee@nrc.gov

NRC TECHNICAL MONITOR (TM): John Klos, 301-415-5136
John.Klos@nrc.gov

TAC NO: Limerick Generating Station Unit 1- ME6555
Limerick Generating Station Unit 2- ME6556

1.0 Background

The Nuclear Regulatory Commission's (NRC) Office of Nuclear Reactor Regulation (NRR) is responsible for ensuring the public health and safety through licensing and inspection activities at all commercial nuclear power reactor facilities in the United States. Evaluation of License Renewal Applications (LRAs) is performed by the Division of License Renewal (DLR). DLR performs its work in accordance with the requirements of Title 10 of the *Code of Federal Regulations* Part 54 (10 CFR Part 54), "Requirements for Renewal of Operating Licenses for Nuclear Power Plants". In addition, DLR uses guidance provided in NUREG-1800, "Standard Review Plan for Review of License Renewal Applications for Nuclear Power Plants", Revision 2 (SRP-LR), dated December 2010 and in NUREG-1801, "Generic Aging Lessons Learned (GALL) Report", Revision 2 also dated December 2010.

2.0 Objective

The contractor shall provide all necessary personnel, equipment, facilities and materials to accomplish the requirements of this task order (TO). The contractor shall provide technical support to the DLR project team in reviewing and evaluating operating license renewal application for the Limerick Generating Station, Units 1 and 2 (Limerick). For this license renewal application (LRA), the project team, composed of contractor and NRC staff, shall audit and review aging management programs (AMPs), aging management reviews (AMRs), and time-limited aging analyses (TLAAs) submitted by the applicant. The project team shall be led by a plant project manager (PM); the team staff shall be knowledgeable and experienced in the areas of engineering and science applicable to license renewal activities. The contractor shall provide technical expertise and services for Tasks 1-3 as described in this TO.

For the AMP reviews, the project team evaluates and audits the AMPs the applicant proposes are consistent with the GALL Report and reviews other selected plant-specific AMPs. For each of the assigned tasks scope of work, the project team reviews the applicant's aging management activities and programs to determine whether these AMPs are adequate to manage the effects of aging on systems, structures, and components so their intended functions will be maintained consistent with the plant's current licensing basis (CLB) during the proposed period of extended operation.

For the AMP and AMR reviews, the project staff evaluates the areas for the Technical Review Packages (TRP) assigned.

For the TLAAs reviews, the project team evaluates the information provided by the applicant addressing the GALL Report recommendations and plant-specific TLAAs and determines if the information provided meets the requirements of 10 CFR 54.21.

3.0 Scope of Work

The table below lists examples of technical review packages in the corrosion/materials area for a typical license renewal application. The list may or may not reflect the final technical review package assignments. The actual list of technical review package assignments will be finalized later at the kick-off meeting.

Description of Topical Areas	Expertise Needed	Audit (varies by plant)
Electrical Cables and Connections Not Subject to 10 CFR 50.49 EQ Requirements Program	Electrical	Yes
Inaccessible Medium Voltage Cables Not Subject to 10 CFR 50.49 EQ Requirements	Electrical	Yes
Metal Enclosed Bus	Electrical	Yes
Electrical Cable Connections Not Subject to 10 CFR 50.49 EQ Requirements Inspection.	Electrical	Yes
EQ of Electrical Components	Electrical	Yes
EQ Analyses of Electrical Equipment, TLAAs 4.4	Electrical	Yes
Electrical Insulators - Conductors	Electrical	Yes
Transmission Conductors and Switchyard Buses	Electrical	Yes
Aluminum	Materials	Yes
Copper Alloy	Materials	Yes
Elastomers	Materials	Yes
Erosion	Materials	Yes
Glass	Materials	Yes
Heat Exchanger	Materials	Yes
HVAC	Materials	Yes
Non-metallic	Materials	Yes
Stainless Steel	Materials	Yes
Steel-other	Materials	Yes
Special topical areas (such as Diesel Exhaust Piping, Stress Corrosion Cracking, CASS, or Cast Austenitic Stainless Steel, as needed based on	Various	Maybe

Description of Topical Areas	Expertise Needed	Audit(varies by plant)
uniqueness of LRA)		

3.1 Task 1 - Peer Review of Safety Evaluation Report

3.1.1 Task 1(a) - Peer review for site audits, breakout sessions, and audit reports.

Requirement:

Concerning site AMP audit's, ATL shall participate, as indentified by the NRC, in conjunction with site AMP audits by participating in breakout sessions via teleconference held to discuss issues identified. ATL SME(s) will assess relevant review sections, as designated in TRP assignments, and provide input to their NRC counterpart regarding potential issues or RAIs that will be needed to support any site audit and breakout session discussions.

ATL shall provide peer review input on audit reports written by their NRC counterparts. The audit reports shall contain the LRA-specific information, extracted from the LRA, which are related to the audit. The audit report template will aid the SME(s) in the peer review of the assigned evaluation portion of the audit report. The TM will provide a current copy of the writing guidelines and a recently-issued audit report, upon request. ATL staff shall peer review the draft audit report in accordance with the writing guidance provided, ensure the report is technically correct and complete, and provide input to their NRC counterpart on potential draft RAI's as a result of their review.

ATL shall provide qualified SME(s) to provide input to their NRC counterpart to help prepare formal requests for additional information (RAI), when determined appropriate, to obtain additional information to continue with the LRA safety review. The RAI shall cite the technical and regulatory basis for requesting the information.

Standard(s):

All deliverables shall be provided on time, technically acceptable, with no spelling or grammatical errors, and in the specified format.

Deliverable(s):

The deliverable for this task is a marked (electronic) version of the assigned Audit Report, or related RAI with comments, as applicable and additional communication, if necessary, to clarify comments. ATL shall deliver the peer review to the NRC TM no later than twenty (20) working days after assigned.

3.1.2 Task 1(b)- Peer review for Safety Evaluation Report reviews.

Requirement:

ATL shall provide peer review input on draft and final Safety Evaluation Report (SER) input written by their NRC counterparts. SERs will be written in accordance with NRC review guidance, and shall be consistent with NUREG-0650, "Publishing Documents in the NUREG Series," NUREG-1379, "NRC Editorial Style Guide," Revision 2, and "Safety Evaluation Report (SER) Style Guide." In addition, the TM will provide a current copy of any additional writing guidelines and a recently-issued SER, upon request. ATL staff shall peer review the draft and final SER input in accordance with the writing guidance provided, ensure the report is technically correct and complete, and provide input to their NRC counterpart on potential draft RAI's as a result of their review. ATL shall also review any related RAIs and RAI responses and take those into account when providing peer review to the SER section.

ATL shall develop and follow its quality control plan which outlines the procedures and system to be used for document version control, technical input tracking, change management, and technical and editorial reviews. ATL shall organize, track, and manage changes in a structured, systematic, and transparent manner, throughout the review of the draft and final SER.

Standard(s):

All deliverables shall be provided on time, technically acceptable, with no spelling or grammatical errors, and in the specified format.

Deliverable:

The deliverable for this task is a marked (electronic) version of the assigned related RAI, or SER section(s), with comments, as applicable and additional communication, if necessary, to clarify comments. ATL shall deliver the peer review to the NRC TM no later than twenty (20) working days after assigned.

3.2 Task 2 - Advisory Committee on Reactor Safeguards (ACRS) Support (OPTIONAL)**Requirement:**

ATL shall provide up to 20 person-hours of key personnel SME per meeting to support DLR staff during ACRS meetings (up to two meetings - subcommittee and final) to present the results of the LRA safety review. The activities may include, but are not limited to: providing information, preparing input for the staff's presentation, and participating in the dry run and the ACRS meeting. The ACRS meeting is normally held several months after the completion of the audit report and the SER inputs. The estimated effort should include refreshing of the specialist on the review and any technical issues. The dry run could be accomplished through telephone conference, if deemed acceptable by the TM. A two-day trip to Rockville, MD shall be included in the estimate to support the ACRS meeting.

Standard(s):

Contractor participation in all assigned ACRS meeting support.

Deliverable:

There is no formal deliverable for this Task 2. ATL shall support for the preparation for the ACRS meeting, support services for the dry run, and support for the duration of the ACRS meetings at the NRC Headquarters.

3.3 Task 3 - Atomic Safety and Licensing Board Panel (ASLBP) Support (OPTIONAL)**Requirement:**

ATL shall provide experienced and qualified technical experts (subject matter experts) to support DLR staff in preparation for and during ASLBP hearings (up to four hearings). The activities associated with this task may include, but are not limited to: replying to contentions, preparing for ASLBP hearings, and participating in those hearings by presenting the results of the LRA safety review and providing testimony in response to questions by the ASLBP.

The ASLBP hearings are normally held 12 months after the issuance of the final SER. The estimated effort should include refreshing of the specialist on the review and any technical issues. The preparation for the ASLBP hearings could be accomplished through telephone conference, if deemed acceptable by the TM. A one-week trip to a town near the plant's location and 40 person-hours of work shall be included in the estimate to support the ASLBP meeting.

Standard(s):

Contractor participation in all assigned ASLBP hearing support.

All information/support provided for ASLBP shall be technically correct.

Deliverable:

Contractor support for the preparation of the ASLBP hearings and support for the duration of the ASLBP hearings. All deliverables due dates will be specified by the PO in each TO.

4.0 Technical and Other Special Qualifications Required

It is the responsibility of ATL to assign technical staff, employees, subcontractors, or specialists who have the required educational background, experience, or combination thereof to meet both the technical and regulatory objectives of

the tasks specified in this SOW. The NRC will rely on representations made by ATL concerning the qualifications of the personnel assigned to this agreement, including assurance all information contained in the technical and cost proposal, including resumes, is accurate and truthful. The use of experienced personnel for the key positions on each task and technical review package under this project is essential to the success of the project.

ATL shall provide all necessary personnel, equipment, facilities and materials to accomplish the efforts placed under this contract. The use of particular personnel on this project is subject to the NRC TM's and PO's approval. This includes proposed changes to key personnel during the life of the agreement.

ATL team shall consist of SMEs in corrosion/materials engineering and science capable of conducting the SOW including the following disciplines: corrosion, materials engineering, power plant engineering or equivalent disciplines, as applicable to license renewal activities. For the purpose of bidding, assume that either two (2), or three (3) ATL subject matter experts from the required disciplines will participate in the assigned reviews and providing staff in other technical areas on an as-needed basis. It is expected ATL will review and comment on the sections of the SER provided by NRC staff. The NRC prepared sections will be incorporated in the camera-ready copies of the SER after the quality assurance and editing process of the sections are completed.

If any task will be subcontracted or performed by subcontractors or consultants, ATL shall obtain the NRC Contracting Officer's written approval of the subcontractor or consultant prior to initiation of the subcontracted effort. Conflict of interest considerations shall apply to any subcontracted effort.

The subject matter experts will have demonstrated their expertise as documented in resumes, describing oral presentations at public meetings, professional conferences, management briefings, and providing expert testimony in hearings.

The subject matter experts (SME) shall:

- Provide technical expertise to complete the review of topical areas in technical review packages
- Provide technical expertise to propose and assist in generating RAIs, as necessary to complete the final SER
- Provide technical expertise to assist in generating input into the audit report, SER with open items, and final SER
- Provide technical expertise to conduct a thorough peer review of assigned sections of RAIs, the audit report, SER with open items, and final SER

ATL shall assign the technical staff, employees, subcontractors, or specialists who have the required educations background, work experiences, or a combination thereof to meet both the technical and regulatory objectives of the work specified in this SOW.

ATL shall ensure that each SME reviews and becomes familiar with the plant-specific LRA with emphasis on AMPs, AMRs, and TLAAs described in the technical review package. ATL shall ensure that each SME also reviews, for familiarization: (1) the audit report and (2) sections 3 and 4 of a recently NRC-issued SER (final SER or SER with open items), and the assigned technical review package. The NRC technical monitor (TM) will identify the specific audit reports and SERs for review, upon request.

5.0 Meetings and Travel

If the optional tasks are exercised, there will be travel of up to two days to the ACRS meeting in Rockville, MD and a two day trip to a location near the site for a public meeting.

Routine status meetings (weekly to monthly) by the NRC TM and ATL's team should be conducted using electronic means of Tele/Video - conferences or other means to minimize travel costs. Progress meetings will be quarterly during any active phase of this project, at the discretion of the NRC. ATL should plan to make available key personnel assigned to active tasks during the course of these meetings.

As required, a program review meeting between the NRC TM and ATL management may be held to review overall program objectives and project performance. In addition, meetings at NRC Headquarters and/or technical information gathering trips may be necessary as they may be identified by the NRC TM. Specific meeting and travel requirements will be identified during the discussion of the ATL project plan. Any travel will be confirmed with the NRC PO prior to commencement of the travel.

Optional meetings that potentially could require Contractor travel are summarized below.

<u>Topic</u>	<u>Location</u>	<u>Trips</u>	<u>Days</u>	<u>Contractor</u>
Optional Work:				
ACRS Meeting	Rockville, MD	1	2	1
Hearings/Public Meeting	Near site TBD	1	2	1

6.0 Deliverable Format

ATL shall provide the deliverables listed in each task in Microsoft® Office Word 2007, or NRC designated word processing software to the plant Project Manager, TM, and PO, unless otherwise directed by the TM.

The transmittal letter and cover page of each report, or other deliverable, as appropriate, shall contain the job code number (JCN), NRC technical assignment control (TAC) number or inspection report number, and the facility name and docket number, as appropriate. The SER shall be prepared in NUREG format.

7.0 Financial and Technical Status Reports

ATL shall submit monthly, periodic technical and financial reports in accordance with the contract. The estimated staff effort should be recorded at the subtask level. The work accomplished and the degree of completeness should also be tracked by subtask. The reports are due within 15 calendar days after the end of the report period (i.e., each four week period). The NRC TM shall receive one copy of the periodic status report, and the NRC PO shall receive one copy. See the contract for further distribution requirements.

8.0 Period of Performance

The period of performance is September 01, 2011 through September 30, 2012 with an option to extend the period of performance through June 30, 2013 should the optional tasks be exercised.