

ORDER FOR SUPPLIES OR SERVICES

PAGE OF PAGES

1 10

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

BPA NO.

1. DATE OF ORDER FEB 27 2013		2. CONTRACT NO. (If any) NRC-HQ-12-C-42-0106		6. SHIP TO:	
3. ORDER NO. NRC-T003		4. REQUISITION/REFERENCE NO.		a. NAME OF CONSIGNEE U.S. Nuclear Regulatory Commission	
5. ISSUING OFFICE (Address correspondence to) U.S. Nuclear Regulatory Commission Div. of Contracts Attn: P. Merriweather Mail Stop: TWB-01-B10M Washington, DC 20555				b. STREET ADDRESS	
7. TO		c. CITY Washington		d. STATE DC	e. ZIP CODE 20555
a. NAME OF CONTRACTOR ENERGY RESEARCH, INC.		DUNS: 621211259 DUNS+4		f. SHIP VIA	
b. COMPANY NAME		8. TYPE OF ORDER			
c. STREET ADDRESS 6189 EXECUTIVE BLVD		<input type="checkbox"/> a. PURCHASE 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.		<input checked="" type="checkbox"/> b. DELIVERY 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 ROCKVILLE	e. STATE MD	f. ZIP CODE 208523901			
9. ACCOUNTING AND APPROPRIATION DATA Transfer \$10,000.00 2013-25-17-4-107 Q4013 252A 31X0200 from the base contract NRC-HQ-12-C-42-0106 to this task order NRC-HQ-12-C-42-0106 NRC-T003 PFS:131226 DUNS 621211259		10. REQUISITIONING OFFICE NRO			
11. BUSINESS CLASSIFICATION (Check appropriate box(es))					12. F.O.B. POINT N/A
<input checked="" type="checkbox"/> a. SMALL <input type="checkbox"/> b. OTHER THAN SMALL <input type="checkbox"/> c. DISADVANTAGED <input 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) ELIGIBLE UNDER THE WOSB PROGRAM <input type="checkbox"/> h. EDWOSB					
13. PLACE OF		14. GOVERNMENT B/L NO.		15. DELIVER TO F.O.B. POINT ON OR BEFORE (Date) 9/30/2015	
a. INSPECTION See Block 6		b. ACCEPTANCE See Block 6		16. DISCOUNT TERMS NET 30 DAYS	

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>The Contractor shall provide services in accordance with the attached SOW titled "Technical Support for the Detroit Edison Company/Ferri 3 COL Environmental Review."</p> <p>COR: Christine 301-415-2713 Christine.Briggs@nrc.gov PM Dr. M. Khatib-Rahbar</p> <p>Total Order ceiling: \$182,351.99 Total Obligated Amount: \$10,000.00 Cost Reimbursable Amount: \$173,668.56 Fee: \$8,683.43 Period of Performance: 3/01/2013-9/30/2015</p> <p><i>7/20/13</i></p>				See CONTINUATION Page	

SEE BILLING INSTRUCTIONS ON REVERSE	18. SHIPPING POINT		19. GROSS SHIPPING WEIGHT		20. INVOICE NO.		17(h) TOTAL (Cont. pages) 17(i) GRAND TOTAL \$182,351.99
	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			
22. UNITED STATES OF AMERICA BY (Signature) <i>Karibbe M...</i>				23. NAME (Typed) Pearlette Merriweather Contracting Officer TITLE: CONTRACTING/ORDERING OFFICER			

AUTHORIZED FOR LOCAL REPRODUCTION
PREVIOUS EDITION NOT USABLE

OPTIONAL FORM 347 (REV. 2/2012)
PRESCRIBED BY GSA/FAR 48 CFR 53.213(f)

SUNSI REVIEW COMPLETE

MAR 08 2013

TEMPLATE - ADM001

ADM002

A. 1 SCHEDULE - SUPPLIES OR SERVICES

The period of performance of this task order is 3/1/2013 – 9/30/2015.

Labor Rates for Period of Performance: 3/1/2013 – 12/31/2013		
001	Labor Category	
	Labor rate Unburden	
	a	Project Manager (ERI)
	b	Support Staff (ERI)
	c	Senior Technical Reviewer (ERI)
	d	Technical Reviewer (ERI)

Subcontractors		
Labor rates for Period of Performance: 3/1/2013-12-31/2013		
	Labor Category	Burden Labor Rates
002	Executive Subject Matter Expert/Technical Reviewer	
	Senior Subject Matter Expert/Technical Reviewer	
	Subject Matter Expert/Technical Reviewer	
	Associate Subject Matter Expert/Technical Reviewer	

Labor Rates for Period of Performance: 1/1/2014 – 12/31/2014		
003	Labor Category	
	Labor rate Unburden	
	a	Project Manager (ERI)
	b	Support Staff (ERI)
	c	Senior Technical Reviewer (ERI)
	d	Technical Reviewer (ERI)

Subcontractors		
Labor rates for Period of Performance: 1/1/2014-12-31/2014		
	Labor Category	Burden Labor Rates
004	Executive Subject Matter Expert/Technical Reviewer	
	Senior Subject Matter Expert/Technical Reviewer	
	Subject Matter Expert/Technical Reviewer	
	Associate Subject Matter Expert/Technical Reviewer	

005	Labor Rates for Period of Performance: 1/1/2015 – 9/30/2015	
	Labor Category	Labor rate Unburden
	a Project Manager (ERI)	
	b Support Staff (ERI)	
	c Senior Technical Reviewer (ERI)	
	d Technical Reviewer (ERI)	

006	Subcontractors	
	Labor rates for Period of Performance: 1/1/2015- 9/30/15	
	Labor Category	Burden Labor Rates
	Executive Subject Matter Expert/Technical Reviewer	
	Senior Subject Matter Expert/Technical Reviewer	
	Subject Matter Expert/Technical Reviewer	
	Associate Subject Matter Expert/Technical Reviewer	

TASK ORDER STATEMENT OF WORK

JCN Q-4013	Contractor ERI	Task Order No. 3
Applicant Detroit Edison Company	Design/Site ESBWR/Fermi 3	Docket No. 52-33
Title/Description Technical Support for the Detroit Edison Company/Fermi 3 COL Environmental Review		
TAC No. RX0420	B&R Number 2013-25-17-4-107	SRP or ESRP Section(s) ESRP—NUREG - 1555
NRC Contracting Officer Representative (Administrative)		
Christine Briggs	(301) 415-2713	Christine.Briggs@nrc.gov
NRC Contracting Officer Representative (Technical)		
Bruce Olson	301-415-3731	Bruce.Olson@nrc.gov

1.0 BACKGROUND

Combined Operating License (COL) Applications are submitted pursuant to Part 52 of Title 10 of the *Code of Federal Regulations* (10 CFR 52), "Licenses, Certifications, and Approvals for Nuclear Power Plants." The U.S. Nuclear Regulatory Commission (NRC) reviews COL Applications based on information furnished by electric utility companies pursuant to 10 CFR 52.79, "Contents of Applications; Technical Information in Final Safety Analysis Report."

A Standard Review Plan (SRP) (NUREG-0800) is prepared for the guidance of staff reviewers in the Office of New Reactors in performing safety reviews of applications to construct or operate nuclear power plants and the review of applications to approve standard designs and sites for nuclear power plants. The principal purpose of the SRP is to assure the quality and uniformity of staff safety reviews.

An Environmental Safety Review Plan (ESRP) (NUREG-1555) is prepared for the guidance of staff reviewers in performing environmental reviews of applications related to nuclear power plants. The ESRPs are companions to regulatory guides that address siting and environmental issues. As with NUREG-0800 the purpose of the ESRP is to assure the quality and uniformity of environmental reviews.

The staff publishes the results of these reviews in a Safety Evaluation Report (SER) and in an Environmental Impact Statement (EIS).

As part of Task Order 35 under JCN Q4013, Energy Research, Inc. (ER) provided technical assistance related to the Review of the Environmental Portion of the Fermi 3 COL application. Technical work was coordinated with the Argonne National Laboratory Technical Lead (ANL-TL).

Site audit and scoping meetings were held and a scoping summary report was prepared. Requests for additional information (RAIs) were developed and submitted to the applicant. Information from RAI responses and other diverse sources was assembled and a draft environmental impact statement (DEIS) was prepared and issued. Responses to public comments on the DEIS were collected and provided as Appendix E of the Final EIS (FEIS). A draft FEIS was prepared, a week-long writing session was attended and otherwise supported, and a camera-ready draft of the FEIS was provided to NRC. Items identified in Contract Modification 1 as Tasks 1 through 9 have been completed. Task 10 of Contract Modification 1 will be partially completed by December 31, 2012. Remaining work to be done includes

making provisions for hearing support for both contested and mandatory hearings, post-FEIS or other technical analysis responses that may be required, and records consolidation (e.g. hearing files).

Additional background information may be found in the commercial new reactors basic task ordering agreement.

2.0 **OBJECTIVE**

The objective of this task order is to obtain technical expertise from the commercial contractor to assist the NRC staff to develop testimony for the contested hearing, testify at the hearing, and to support the NRC staff in preparations for the hearing. Technical assistance is also required to develop the NRC staff's SECY paper for the mandatory hearing, to support the staff in preparations for the mandatory hearing, and to attend the mandatory hearing at NRC's headquarters in Rockville, Maryland. Additional tasking entails providing assistance with post-FEIS responses that may be required, and records consolidation.

3.0 **WORK REQUIREMENTS, SCHEDULE AND DELIVERABLES**

Tasks/Standards	Scheduled Completion	Deliverables
<p>10. REQUIREMENT: Hearing Support for Contested and Mandatory Hearings:</p> <p>a. STANDARD: The contractor team will support the COR-T in preparing for participation in contested hearing, including pre-hearing conferences and contributing to hearing files, preparing testimony, and attendance as witness.</p> <p>b. STANDARD: The contractor team will support the COR-T in activities associated with providing written material for the NRC staff's SECY paper, and participating in the mandatory hearing, including pre-hearing conferences, preparing testimony, attendance as witness.</p>	<p>* Throughout project.</p> <p>FY13-FY14</p> <p>Activities initiate 60-180 days following issuance of the final EIS.</p> <p>FY13-FY14</p>	<p>Participate in contested hearing, as needed. Prepare testimony and technical reports</p> <p>Assist in preparation of Environmental issues paper to inform staff's SECY paper; attend mandatory hearing</p>
<p>11. REQUIREMENT: Post-FEIS EFFORT</p> <p>a. STANDARD: The contractor team will support the COR-T in post-Final EIS activities associated with the identification and analysis of any new and significant information.</p>	<p>* Initiated by COR-T if and when needed.</p> <p>FY14-FY15</p>	<p>No formal deliverable</p>

Tasks/Standards	Scheduled Completion	Deliverables
<p>12. REQUIREMENT: Project Management</p> <p>a. STANDARD: The ERI Team Leader (TL) will oversee the review effort and coordinate with COR-T and ANL-TL to ensure common understanding of work scope, timing of activities, and review progression. The TL will work with program staff to facilitate accurate monthly letter status reports and project management performance reports providing the COR-T the necessary information for determining level of effort expended and the associated progress. Frequent and effective communication of any NRC direction, scope clarifications, schedule modifications; etc. to the team is expected. The TL will participate in program level orientations, training and meetings which are held to disseminate timely information concerning programmatic information or decisions. When necessary, work activities are adjusted along with any necessary schedule adjustments and appropriate parties are informed.</p> <p>b. STANDARD: The ERI Team Leader (TL) will help maintain the EARRTH project directory as the central repository of documents and other records necessary for the review.</p>	<p>* Throughout project.</p>	<p>Monthly Letter Status Reports and Project Management Performance Reports as defined in Section 5.0 of this task order.</p>

* These Work Schedules are subject to change by the NRC Contracting Officer (CO) to support the needs of the NRC Licensing Program Plan.

The COR may issue technical instruction from time to time throughout the duration of this task order. Technical instructions must be within the general statement of work delineated in the task order and shall not constitute new assignments of work or changes of such a nature as to justify an adjustment in cost or period of performance. The contractor shall refer to Section G.1 of the base contract for further information and guidance on any technical directions issued under this task order.

Any modifications to the scope of work, cost, or period of performance of this task order must be issued by the Contracting Officer (CO) and will be coordinated with the NRO COR.

4.0 TECHNICAL AND OTHER SPECIAL QUALIFICATIONS REQUIRED

As specified in the base contract, the contractor shall provide individuals who have the required educational background and work experience to meet the objectives of the work specified in this task order. Specific qualifications for this effort include:

Technical areas of the EIS that may require a SME include the following:

- Accidents, Design Basis and Severe
- Uranium Fuel Cycle
- Terrestrial Ecology

- Cultural Resources
- Socioeconomics, Environmental Justice

The contractor shall provide a contractor project manager (PM) to oversee the effort and ensure the timely submittal of quality deliverables so that all information is accurate and complete as defined in the base contract.

The NRC will rely on representations made by the contractor concerning the qualifications of the personnel assigned to this task order, including assurance that all information contained in the technical and cost proposals, including resumes, is accurate and truthful. The resume for each professional proposed to work under this task order (contractor, subcontractor, or consultant) shall describe the individual's experience in applying his or her area of engineering specialization to work in the proposed area. The use of particular personnel on this contract is subject to the NRC COR's approval. This includes any proposed changes to key personnel during the life of the task order.

5.0 REPORTING REQUIREMENTS

Task Order Progress Report

The contractor shall provide a monthly progress report summarizing accomplishments, expenditures, contractor staff hours expended, percent completed for each task under this task order, and any problems encountered by the contractor. The report shall be sent via e-mail to the NRC CORs and CO.

Please refer to Section F of the basic contract award document for other contract reporting requirements

Technical reporting requirements

Unless otherwise specified above, the contractor shall provide all deliverables as draft products. The NRC COR will review all draft deliverables (and coordinate any internal NRC staff review, if needed) and provide comments back to the contractor. The contractor shall revise the draft deliverable based on the comments provided by the COR, and then deliver the final version of the deliverable. When mutually agreed upon between the contractor and the COR, the contractor may submit preliminary or partial drafts to help gauge the contractor's understanding of the particular work requirement.

The contractor shall provide the deliverables in hard copy (upon request) and electronic formats. The electronic format shall be provided in MS Word or other word processing software approved by the COR. For each deliverable, the contractor shall provide one hard copy (upon request) and electronic copy to both the CORs and the CO. The schedule for deliverables shall be contained in the approved project plan for the task order effort.

In all correspondence, include identifying information: JCN No.: Q-4013; Technical Assignment Control No. (TAC), if applicable, RX0420 Task Order No.: 3; the licensee: Detroit Edison and, the site: Fermi 3.

Project Management Performance Report

The NRC will provide the contractor with the spreadsheet report template to report Project Management-Performance (the Project Management – Performance Report Tool). The NRC COR-T shall be consulted prior to the submission of the Project Management-Performance Report (PMPR). The PMPR will be updated monthly and submitted to the NRC COR-T, the NRC COR-A, and their designated NRC management, concurrently with the submission date for the MLSR. The PMPR is a living document that demonstrates progress on a project and adherence to project resource estimates. The PMPR combines project information elements into a single focused project/resource management status report (a one pager) that conveys project progress, resource utilization (actual dollars expended to complete the task and/or deliverables), and tasks/deliverables percent complete, earned value, budget at completion, schedule and cost. The PMPR uses a spread sheet format that represents the project scheduled tasks and their execution and

planned tasks by each fiscal year. The spreadsheet template and users guide for this report will be furnished to the contractor by the NRC COR-T.

Electronic Spending Plan

Along with the MLSR, the contractor shall submit monthly an updated version of the Electronic Spending Plan (ElecSP). The monthly update of the ElecSP shall be submitted once the contractor and NRC COR-T for this task order have agreed to the update. The spending plan should reasonably reflect spending when the work is actually scheduled by the NRC COR-T, the NRC COR-A, for this TO. The ElecSP should reflect the planned spending over an 18 month rolling period of time. The planned and revised spending plans should not be changed to reflect what was actually spent during the month of execution. The spending plan should reflect when the spending will occur on the planned project tasks as specified by the project schedule and as reported in the PMPR. In addition, the ElecSP submission shall form the basis for the spending plan in the MLSR. The ElecSP will be updated monthly and submitted to the NRC COR-T for this TO and their designated NRC management, concurrently with the submission date for the MLSR. There shall be an ElecSP for each TO. If changes and updates are needed at the interim period, the contractor shall, after consultation with the COR – Technical note that in the Log sheet and then make the changes in the ElecSP sheet.

6.0 MEETINGS AND TRAVEL

The following travel assumptions should be considered in planning the work effort. It is likely that a smaller group than the entire review team will be necessary to accomplish some activities; the actual travel contingent will be determined by the NRC COR-T after discussion with the contractor Project Manager (TL). Travel in excess of the total number of person-trips must be approved by the NRC COR-A; travel within the work scope limits will be approved by the NRC COR-T.

Two (2), two-person, five-day working meetings at NRC headquarters to work on mandatory hearing materials and pre-hearing preparation for Commission questions. (For estimating purposes, this is four (4) one-person trips.)

One (1), two-person, five-day working meeting at NRC headquarters to work on contested hearing materials and pre-hearing preparation for ASLB questions. (For estimating purposes, this is two (2) one-person trips.)

One (1), two-person, five-day meeting at NRC headquarters to attend and participate in the ASLB hearing. (For estimating purposes, this is two (2) one-person trips.)

Total travel is equivalent to eight (8) one-person trips lasting 3-5 days.

*At the discretion of the NRC COR-T, meetings may be conducted at the contractor or via telephone or video conference.

7.0 NRC FURNISHED MATERIAL

The following NRC furnished materials will be provided to the contractor together with SOW:

- a. CD-ROM containing Reference COL (R-COL) Subsequent COL (S-COL) ([R-COL] [S-COL] Sections and the relevant Appendices from the [R-COL] [S-COL] application.
- b. CD-ROM containing the Final Safety Evaluation Report of the DCD.

8.0 LEVEL OF EFFORT

The estimated level of effort in professional staff hours apportioned among the tasks and by labor category is as follows:

Task(s)	Labor Category	Level of Effort FY-13 (hours)	Level of Effort FY-14 (hours)	Level of Effort FY-15 (hours)
10.a Hearing Process	Subject Matter Expert (SME)	200	200	
Hearing Support: Contested Hearing	Senior Technical Reviewer	20	20	
	Technical Reviewer	20	20	
	Administrative Support	10	10	
10.b Hearing Support:	Subject Matter Expert	60	60	
Mandatory Hearing	Senior Technical Reviewer	6	6	
	Technical Reviewer	6	6	
	Administrative Support	3	3	
11.a Post-FEIS EFFORT	Subject Matter Expert		40	40
	Senior Technical Reviewer		4	4
	Technical Reviewer		4	4
	Administrative Support		2	2
12. Project Management	Project Manager (TL)	65	75	10
Total		390	450	60

9.0 PERIOD OF PERFORMANCE

The projected period of performance is from 3/1/2013 through 9/30/2015.

10.0 OTHER APPLICABLE INFORMATION

a. License Fee Recovery

All work under this task order is fee recoverable and must be charged to the appropriate TAC number(s).

b. Expected Classification or Sensitivity

All work under this project is expected to be unclassified and not sensitive.

c. Assumptions and Understandings:

Level of Effort estimates are based on a generic resource model that was derived from actual cost data for the completed Vogtle and Summer environmental review projects.

The level of effort for all tasks is based on the assumption that the contractor is familiar with the review procedures of the ESRP (NUREG-1555), NRC and NEPA regulations and associated guidance documents.

It is assumed that the contractor has access to the NRC furnished material available on the Internet.

It is understood that the scope of the review consists of conference calls with the NRC staff, and with the NRC staff and the applicant, to discuss open items in an attempt to obtain additional information or reach resolution.

During the course of the review, the COR-T, and possibly other NRC personnel, may travel to the contractor site to discuss the status of the review and participate in the resolution of open items. It is assumed that the level of effort covers such a meeting

The primary overall deliverable for this tasking shall be the provision of technical and regulatory analyses and reports, both orally and in writing as required by the COR-T. The technical analysis will provide documentation and support for NRC's technical, safety, and legal basis for approving the Fermi 3 COL application. Reporting will provide necessary information to adequately explain the NRC staff's rationale for why there is *reasonable assurance* that public health and safety is protected. Written material should be provided in a form that a person with a technical (non-nuclear) background and unfamiliar with the applicant's request could understand the basis for the staff's conclusions.