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September 6, 1995

MEMORANDUM TO: Dale E. Yeilding, Project Manager, TPAB, AEOD
FROM : Sada V. Pullani, Sr. Rx. Op. Engr., DEIIB, AEOD
SUBJECT : LER ANALYSIS FOR COOPER

Attached is a Statement of Work (SOW) for an LER analysis of Cooper for the last 2 years (July 1, 1992 - present) including work items 1 through 6. Please note that work items 4, 5 and 6 are optional and need a separate estimate and that the analysis results should be provided by COB on August 12, 1994. We would like to limit the total cost to less than \$ 20,000.

Sada V. Pullani
Sr. Rx. Op. Engr.
DEIIB, AEOD

Enclosure: As stated

cc w/enclosure:

S. Rubin

DEIIB File D0915
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STATEMENT OF WORK FOR AEOD/AOCA-ORNL-94-?

Perform an LER analysis of Cooper for the last 2 years (July 1, 1992 - present) with the following objectives:

1. Identify operational problem areas (include safety system failures)
2. Characterize human performance and equipment problems (maintenance, program/procedures, personal errors, etc.)
3. Identify those areas and/or systems where problems or events are recurring.
4. Summarize LERs previously reviewed in support of AEOD's Accident Sequence Precursor (ASP) program to identify potential precursors to core damage accidents. *
5. Identify organizational performance problems (administrative and others) which may have contributed to the events. *
6. Characterize and organize the information to bring a better reflection of the risk significance of the events. *

* Optional items 4, 5, and 6: please provide a separate estimate for these items.

The total man-hour expenditure on this task should not exceed 15 man-days. The analysis results should be provided by COB on August 12, 1994.

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SET ADMINISTRATIVE NEEDS

SET BAGMAN TRIP

- 1) THE SET WILL REQUIRE THE LICENSEE TO PROVIDE ESCORTS (FOR APPROXIMATELY 8 NRC INDIVIDUALS) FOR A SITE TOUR TENTATIVELY SCHEDULED FOR 1:00pm.- 2:30pm. ON AUG. 8, 94'.
- 2) THE SET TEAM MEMBERS AND DET BRANCH CHIEF WILL REQUIRE BUDGING FOR UNESCORTED SITE ACCESS/GET TRAINING TENTATIVELY SCHEDULED FOR 4:15pm.-4:30pm. ON AUG 8, 94'. NOTE, THE ADMN. ASSISTANT'S ACCESS WILL BE DEPENDANT ON WORK LOCATION.
- 3) THE SET WILL REQUIRE FULL ACCESS TO THE RFI LIBRARY TO REVIEW THE LICENSEE'S RESPONSES TO THE DSA'S REQUESTS FOR INFORMATION AND DSA'S CONCERNS GENERATED (AS OF THAT DATE) DURING THE ASSESSMENT. THE SET REVIEW OF THE LIBRARY IS TENTATIVELY SCHEDULED FOR 10:30am.-12:00pm. ON AUG. 9, 94'.

FIRST ON SITE EVALUATION (8/15-8/19)

THE FIRST WEEK ON SITE THE SET WILL BE OBSERVING THE DSA'S ACTIVITIES.

THE ACCOMMODATIONS WE WILL NEED ARE AS FOLLOWS:

- 1) WE PLAN TO SHARE THE COMMON WORKING SPACE WITH THE DSA EVALUATORS, THIS WILL REQUIRE ADDITIONAL SPACE FOR, 4 FUNCTIONAL TEAM LEADERS, THE TEAM MANAGER, AND THE SET ADMIN. ASSISTANT. THIS WILL REQUIRE A TOTAL OF 6 ADDITIONAL COMMON WORK STATIONS
- 2) THE SET WILL REQUIRE 1 SEPARATE CONFERENCE ROOM PREFERABLY LARGE ENOUGH TO ACCOMMODATE 15 INDIVIDUALS.
- 3) THE SET WILL REQUIRE 1 SEPARATE INTERVIEW ROOM.

SECOND ONSITE EVALUATION (9/26-10/7)

FULL SET EVALUATION CONDUCTED AT COOPER STATION.

THE ACCOMMODATIONS WE WILL NEED ARE AS FOLLOWS:

- 1) IT IS ASSUMED THAT THE SET WILL INHERENT THE DSA COMMON AREA WORK SPACE.
- 2) THE SET WILL REQUIRE INTERVIEW ROOMS BOTH INSIDE AND OUTSIDE THE LICENSEE'S PROTECTED AREA.

THE SET WILL REQUIRE UNESCORTED ACCESS TRAINING FOR THE REMAINING TEAM MEMBERS.

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COOPER NUCLEAR STATION
NRC DIAGNOSTIC EVALUATION TEAM
DOCUMENT REQUEST NUMBER 1

Please respond to the following information requests individually and separately to facilitate access and use of this information.

GENERIC (000-999) (ALL)

- 001 Plant document index (Previously requested and discussed)
- 002 Organization charts (Corporate, Plant and Department)
- 003 Plant Station Policies Manual
- 004 Nuclear Operating Division Policies Manual
- 005 Corporate Manuals (Listing)
- 006 Human Resources Procedure
- 007 Independent Safety Engineering Group (ISEG) Monthly Reports for last 2 years
- 008 Corporate Management Plan for Nuclear Operations
- 009 Current Plant Management Plan
- 010 Nuclear Safety Review Board Procedures
- 011 List all action items in response to NRC/INPO violations/findings, including status for last 2 years.
- 012 Copy of all industry reviews and reports, including PUC reports, related to plant performance/safety. (NOTE: INPO reports may be made available onsite.)
- 013 Telephone directories (corporate and site)
- 014 Fitness for duty program description
- 015 Major modifications, maintenance, tests and surveillance planned for each unit during the next scheduled outage
- 016 Final Safety Analysis Report (onsite copy only)

OPERATIONS (1000-1999) (Thompson)

- 1000 Set of EOPs (block diag, preferred)

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- 1001 Technical Specifications (onsite copy only)
- 1002 List of post trip review reports for past 2 years
- 1003 Onsite Review Board minutes for past 2 years
- 1004 List kinds of plant operations logs
- 1005 Procedure for determining equipment operability
- 1006 List of plant LCOs for past 2 years
- 1007 Checklist for nonlicensed operator rounds
- 1008 Control room equipment out-of-service list showing all additions and deletions for past 12 months (please note what equipment is considered safety related or not)
- 1009 A list of all requests (with brief descriptions) where relief (or deviation) from 10 CFR was granted for last 3 years.
- 1010 Give makeup of staffing shifts for operations, including the fire brigade, HAZ MAT crews, etc. State who is in requal training and status of OJT for each licensed operator/RO/SRO/SCRE
- 1011 Copies of night orders going back 3 months.
- 1012 The index and file copies of all Technical Specification interpretations for last 3 years (include current TSIs and former TSIs)
- 1013 A copy of all operation memorandums for past two years
- 1014 Procedures for locked valves
- 1015 Procedures for equipment labeling
- 1016 Procedures for independent verification
- 1017 Procedures for jumpers and lifted leads
- 1018 Procedures for tagouts
- 1019 Procedures for overtime policy

MAINTENANCE/TESTING (2000-2999) (Prescott)

- 2000 Provide a copy of the maintenance work prioritization procedure
- 2001 Listing of procurement procedures
- 2002 Preventive maintenance master index

- 2003 Provide a copy of the current IST program including relief requests
- 2004 Provide a copy of the current Appendix J program including relief requests
- 2005 Provide a copy of the applicable versions of Section XI and OM standards used for the IST program
- 2006 Provide trend reports for safety-related MOV stroke time testing for the last 2 years
- 2007 Provide trend reports for safety-related pump vibration testing for the last 2 years (include vibration data that is taken for predictive purposes beyond that required by Section XI)
- 2008 Provide copies of recently completed major safety-related maintenance packages involving; 2 mechanical, 2 electrical, and 2 I&C activities
- 2009 List of all maintenance work control procedures
- 2010 List of all testing work control procedures
- 2011 Maintenance plans for upcoming outage
- 2012 Maintenance organization chart showing worker level detail
- 2013 Copy of preventive and predictive maintenance program procedures
- 2014 Copy of operating experience program procedures
- 2015 Copy of vendor equipment technical information program procedures
- 2016 Provide maintenance department documented program goals, objectives, and policies
- 2017 Provide copies of all procedures relating to processing of maintenance work requests (MWR), including closeout of the MWRs
- 2018 Listing of current open preventive maintenance (separate into outage and non-outage)
- 2019 Listing of current open corrective maintenance (separate into outage and non-outage) ***PRIORITY REQUEST***
- 2020 Provide trend reports for the last 2 years for total open preventive maintenance (indicate outage and non-outage)
- 2021 Provide trend reports for the last 2 years for total open corrective maintenance (indicate outage and non-outage) ***PRIORITY REQUEST***

ENGINEERING/TECHNICAL SUPPORT (3000-3999) (Pullani)

- 3000 List of all Engineering Procedures, including engineering administrative procedures and policies/controls regarding contractors.
- 3001 SSFI type evaluations/assessments performed by Licensee during past 2 years
- 3002 Sample of a major modification request
- 3003 List of electrical single line drawings
- 3004 List of P&IDs
- 3005 List of engineering evaluation/work requests for last 2 years
PRIORITY REQUEST
- 3006 List of "System Health Reports" or equivalent for last 2 years
PRIORITY REQUEST
- 3007 List Operating Experience Reports for last 2 years, showing status of action items *PRIORITY REQUEST*
- 3008 Results of PRA/IPE which shows systems contributions to core damage frequency *PRIORITY REQUEST*
- 3009 Position description for all engineering/design management and supervisory jobs (corporate and site)
- 3010 Resumes of all engineering/design management and supervisory personnel (corporate/site)
- 3011 List of all temporary modifications, showing status (including date of installment, date when modification would be overdue, etc)
PRIORITY REQUEST
- 3012 List all permanent modifications installed within the last 3 years, showing date of installment and status (sorted by system)
PRIORITY REQUEST
- 3013 List of backlogs of engineering/design work showing status, man-hour estimates required, and prioritization for completion.
PRIORITY REQUEST
- 3014 List the breakdown of total number of personnel assigned to all engineering/technical support disciplines for the last three years, based on annual reporting date or equivalent
- 3015 List all planned changes in engineering staffing levels and bases for the same
- 3016 List all engineering/design administrative procedures and policies
- 3017 List of all design basis documents, (i.e., products) including calculations, analyses, safety evaluations, etc.

MANAGEMENT (4000-4599) (Madison)

- 4000 Weekly, monthly, and quarterly reports by department for last 2 years
- 4001 Plant monthly performance updates for last 2 years
- 4002 Position descriptions and resumes of corporate and site management personnel
- 4003 Plant staff suggestion system program description and procedures
- 4004 Listing and schedule for regularly scheduled meetings
- 4005 Plant and Corporate policy statements regarding nuclear operations, safety, maintenance, engineering, management, corrective actions and quality verification
- 4006 Charters and reports/minutes for past 2 years for the Nuclear Safety Review Committee and any corporate board of directors committee related to safety
- 4007 Management/Supervisory changes, with dates, titles, and names for last 3 years organized by department
- 4008 Documents describing any existing corporate, site and departmental improvement plans or programs
- 4009 Long Term (e.g. five-year) business plans (corporate and site)
- 4010 Listing of onsite and offsite committees not listed above and copies of minutes for the last 2 years
- 4011 Human Performance Evaluation Systems reports for past 2 years
- 4012 Plant O&M and capital improvement budgets by department for the past 3 years and planned for next 2-3 years
- 4013 Staffing; permanent and contractor positions by department for the past 3 years

CORRECTIVE ACTIONS (4600-4999) (Madison)

- 4600 Procedures and processes for monitoring, evaluating, and implementing (as appropriate) NRC and industry experience feedback
- 4601 Procedures governing corrective actions and quality verification
- 4602 List of all site and corporate processes or programs that identify problems, weaknesses or deficiencies, and provide a description of each.

- 4603 List of both open and closed corrective action items identified within the last 2 years, associated with request 4602 above. List should be descriptive enough to identify system and component or procedure, etc. involved and purpose of the corrective action. *PRIORITY REQUEST*
- 4604 Equipment failure analysis and trending program descriptions
- 4605 Equipment failure trend reports for the last 2 years *PRIORITY REQUEST*
- 4606 Corrective action audit reports for the last 2 years
- 4607 Self-assessments and completed within the last 2 years
- 4608 Listing of site and corporate initiated QA audits and surveillance, by department, during past 3 years
- 4609 List of QA deficiencies for last 2 years (resolved and still open)

THE FOLLOWING ADDITIONAL INFORMATION IS REQUIRED TO DEVELOP A "TIME LINE" CHART:

1. Dates and purpose/topic of Major NRC Team Inspections
2. Dates purpose/topic of NRC/INPO/etc. Special Inspections
3. Dates and duration of Major outages
4. Major organizational changes
5. Enforcement actions
6. Licensing actions

ALL INFORMATION IS REQUESTED FOR THE PREVIOUS 3 YEARS