



QA: QA

Michael Sparks, Site Manager
Yucca Mountain Site Operations
Bechtel SAIC Company, LLC
1180 Town Center Drive
Las Vegas, NV 89144

**BECHTEL SAIC COMPANY, LLC (BSC) QUALITY ASSURANCE (QA) SURVEILLANCE
REPORT BSCQA-02-S-04 OF DIESEL EMISSIONS TESTING**

Enclosed is the Surveillance Report BSCQA-02-S-04, conducted by BSC QA on
April 15-18, 2002 at the Yucca Mountain Site.

The purpose of the surveillance was to determine the adequacy and effectiveness of the work
processes in the implementation of Procedure NWI-ESF-021Q, Revision 1, ICN 0, ECN 1,
Diesel-Powered Equipment Emissions Testing and Control Procedure.

This surveillance found effective implementation of requirements and is considered complete
and closed as of the date of this letter. A response to this surveillance report is not required.

If you have any questions, please contact either C. David Osborne at (702) 295-5912 or
John S. Martin at (702) 295-2832.


Donald T. Krishna, Manager
Quality Assurance

5/6/02
Date Signed

RFH:bw-0503022517

Enclosure:
Surveillance Report BSCQA-02-S-04



May 6, 2002

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cc w/encl:

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**OFFICE OF CIVILIAN RADIOACTIVE WASTE MANAGEMENT
QUALITY ASSURANCE SURVEILLANCE REPORT**

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QA Surveillance Number:
BSCQA-02-S-04

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Complete only applicable items.

1. Organization/Location BSC Equipment Maintenance/ESF Pad	2. Subject Diesel Emissions Testing	3. Date(s) Performed 04/15 through 18/2002
4. Surveillance Scope Compliance with Procedure NWI-ESF-021Q "Diesel-Powered Equipment Emissions Testing and Control Procedure".		
5. Requirement(s) (Procedure, Specification, Drawing, etc.) Procedure NWI-ESF-021Q Rev/1 ICN/0 ECN/1 sections as follows: Procedure section 3.2 Diesel Engine Exhaust Testing Procedure section 3.3 Test Methods Procedure section 3.4 Control of Diesel Engine Operation Procedure section 3.7 Training Procedure section 3.8 Calibration		6. Originator <u>C. David Osborne</u> Team Members <u>N/A</u>

SURVEILLANCE RESULTS

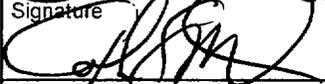
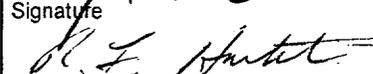
7. Description/Details
This surveillance consisted of field observation, record review, and an interview with the Equipment Superintendent. Due to the site work stand-down, no actual observation of emissions testing being performed could be made. Records reviewed were as follows: Stationary Diesel Engine Emissions Test Reports (property numbers are in parentheses) 12-17-01 (A01093), 12-13-01 (A72158), 01-24-02 (765069), 12-18-01 (72160), Identification Sticker on the Manride Property Number 765069, AP-2.1Q OJT Training Record Lesson Plan # 99001 R/0 dated 01-18-01 which indicated training was conducted for John Williamson, John Dudley, Wayne Scott, conducted by Mike Penovich, and the 10-12-01 calibration record for the ENERAC S/N 31000319 used for performing testing on the four reports referenced. Also reviewed Deficiency Report # BSC-02-D-086 which was written prior to this surveillance which was written to identify that standards were being developed each time equipment was being tested in leu of comparing tests to standards originally developed as required. This deficiency report also addressed that some emissions test data entered on some reports appeared to be incorrect and that records had not been submitted to the RPC in the required 60 day timeframe. Section 3.2 was found to be satisfactory with the exception of 3.2 1.a which is reporting the amount of particulate matter. It was determined during extent of BSC-02-D086 that the machine used for testing was not designed to provide this data. Per discussion with the POC assigned to this deficiency, this is being addressed. Section 3.3 was found to be satisfactory. Section 3.4 was found to be satisfactory with exception of 3.4 3. which is being addressed on the referenced deficiency report.. Section 3.7 was found to be satisfactory. Section 3.8 was found to be satisfactory.

8. Persons (and their organizations) Contacted John Williamson BSC Equipment Superintendent Howard Cox BSC POC	9. CAQ/NCR/TE Issued <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No CAQ/NCR/TE Number(s): Recommendation Issued <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No CIRS Number(s):
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10. Surveillance Conclusions SAT UNSAT

Deficiency Report BSC-02-D-086, issued prior to this surveillance, is resolving the issue of new standards being developed each time equipment is tested. It is also resolving the incorrect recording of engine efficiency rather than particulate matter as required and records not being submitted to the RPC in the timeframe required. This surveillance has determined that the other requirements listed are being performed as required in a satisfactory manner. Testing is being performed in the correct timeframe, training was conducted for personnel performing the tests, equipment is labeled as required, and the equipment (ENERAC) used for the test is calibrated by the manufacturer (Energy Efficiency Systems, Inc.) each year as required.

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11. Completed By (Originator) (Print Name) C. David Osborne	Signature 	Date 04/22/2002
12. Reviewed By (Appropriate QA Manager) (Print Name) John S. Martin	Signature 	Date 5-3-02
13. Approved By (QVM) (Print Name) Robert F. Hartstern	Signature 	Date 5-3-02