

TENNESSEE VALLEY AUTHORITY
NUCLEAR SAFETY REVIEW STAFF

REPORT NO. R-84-32-NPS
FOLLOW-UP REPORT OF
PREVIOUSLY IDENTIFIED ITEMS

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TENNESSEE VALLEY AUTHORITY
NUCLEAR SAFETY REVIEW STAFF
NSRS REPORT R-84-32-NPS

SUBJECT: FOLLOW-UP REPORT OF PREVIOUSLY IDENTIFIED ITEMS

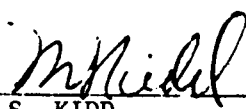
DATES OF
REVIEW: DECEMBER 10 - DECEMBER 20, 1984
JANUARY 7 - JANUARY 11, 1985

REVIEWER:


M. A. HARRISON

1/16/84
DATE

APPROVED:


M. S. KIDD

1-16-84
DATE

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I. SCOPE

Late in 1982, after the formation of the Office of Quality Assurance (OQA), the NSRS formally transferred a number of concerns with recommendations to OQA for verification of corrective action and closure. Actions by responsible organizations enabled OQA to close many of the transferred items, but 18 of them had not been closed as of September 27, 1984, when responsibility for verification of actions taken was formally returned to NSRS by OQA. NSRS accepted the responsibility for the items and performed follow-up reviews to determine the status of each of these items as well as others remaining open.

The 22 specific items reviewed are identified in section IV, "Details." The items were among those remaining open from the following NSRS reports:

- A. R-81-14-OEDC(BLN), Major Management Review of OEDC/Bellefonte
- B. R-81-31-NPS, Special Review of Division of Nuclear Power Operator Training
- C. R-82-02-WBN, Major Management Review of Watts Bar
- D. R-81-11-WBN, Special Review - WBNP

In view of the reorganization and realignment of responsibilities in the Office of Power and Engineering (OPE), NSRS focused on closing as many of the items as possible, and consolidation and updating of items where corrective actions were determined still essential. The status of some items remaining open from the four reports is not included here but will be addressed separately in other reports.

II. CONCLUSIONS AND RECOMMENDATIONS

- A. R-84-32-NPS-01, Inadequate TVA Quality Program

Conclusion

Action was incomplete on developing and implementing an integrated quality program for TVA nuclear facilities that includes the following attributes consolidated from previous NSRS findings: (Refer to section IV.D and as indicated below.)

1. Identification of activities affecting quality. (Refer to Details, IV.C.1.)
2. Identification of components, systems, structures to which the quality program is applied. (Refer to Details, IV.A.5, IV.C.2, and IV.C.3.)
3. Identification and definition of industry standards and guidance for control of activities outside the scope of regulatory requirement. (Refer to Details, IV.A.1.)

4. Improvement of the Office of Engineering (OE) quality program and procedures and acceptance of the OE quality program by the Office of Nuclear Power. (Refer to Details, IV.A.3 and IV.A.4.)
5. Incorporation of vendor data into a configuration management control system. (Refer to Details, IV.A.2 and IV.A.7.)

Recommendation

The Office of Nuclear Power as owner-operator should assure that the integrated quality program, currently being planned and developed, will account for the identification and control of the attributes listed above.

III. STATUS OF SELECTED PREVIOUSLY IDENTIFIED OPEN ITEMS

NSRS verified that an adequate, ongoing corrective action program had been implemented to resolve four of the findings and these were closed. Other findings reviewed revealed that actions were in progress or plans were being developed for resolution, but additional management involvement was necessary to achieve resolution. Eleven of these findings were determined by NSRS to be directly related to development and implementation of an adequate integrated quality program for TVA nuclear facilities and were consolidated into a single current conclusion and recommendation, "Inadequate TVA Quality Program." Three items requiring additional corrective action remained open under their previous report designations. The status of actions to correct the concerns is addressed in sections IV.A and IV.C. The items remaining open are:

- R-81-14-OEDC(BLN)-32, Inadequate Storage of Audit Support Records
- R-81-14-OEDC(BLN)-41, QAB (QMS) Auditor Training
- R-82-02-WBN-26, Lack of Approved Procedures for Certain Computer Programs

Four other items were determined still not corrected but are closed for record purposes since the Division of Quality Assurance had included the essence of these findings in an audit, CH-8400-07, requiring response and resolution, and the duplication of effort to track and verify the items is unnecessary.

IV. DETAILS

A. R-81-14-OEDC(BLN), Major Management Review of OEDC/Bellefonte

Nine items remained open from this report at the initiation of the follow-up review. The status of each is addressed below, identified by the original finding designation.

1. R-81-14-OEDC(BLN)-03, Regulatory Guides/Standards

Summary of Original Finding

OEDC was not providing a compilation of the regulatory guides and industry standards to which TVA had committed, other than those endorsing the ANSI N45.2 standards.

Current Status

Resolution of this item had not been achieved and, as a result of the reorganization of OPE, responsibility for identification of industry standards which will be used by TVA to establish requirements for control of their respective functions was in need of clarification. Refer also to sections IV.A.3 and IV.D for additional comment. Item R-81-14-OEDC(BLN)-03 is closed for record purposes. For verification of completion of corrective action R-81-14-OEDC(BLN)-03 is incorporated into R-84-32-NPS-01.

2. R-81-14-OEDC(BLN)-14, Drawing Information System (DIS) Implementation Concerns

Summary of Original Finding

OEDC failed to adequately implement the DIS for Bellefonte configuration control.

Current Status

In an interview with the Chief, Information Management Branch, NSRS learned that the DIS had been incorporated into the Drawing Management System (DMS) and that TVA intended to implement DMS as the overall control system (for drawings) for NUC PR, OE and OC. NSRS was also aware of the existence and efforts of a TVA task force on configuration management through a review performed on outage controls in October 1984. Within the scope of this task force were subtask groups' missions to gain control of information provided to TVA via vendor manuals and drawings as part of the planned configuration management system. NSRS believed the efforts to gain control of this situation and the degree of management attention afforded to be fully adequate. No additional recommendations are offered at this time. This item R-81-14-OEDC(BLN)-14 and related item R-81-14-OEDC(BLN)-31 are closed for record purposes. For purposes of verification of corrective action completion, these findings are consolidated into R-84-32-NPS-01.

3. R-81-14-OEDC(BLN)-17, Program and Implementation Inadequacies of Engineering Procedures (EPs)

Summary of Original Finding

EN DES EPs were inadequate in that they contained conflicting information, provided insufficient assurance of design quality, and were not consistently implemented.

Current Status

In an interview with NSRS, the Manager of the Quality Management Staff (QMS) of OE discussed OE's intention to redesign and streamline Engineering Procedures as stipulated by the Manager of OE. This effort was considered by NSRS as a necessary part of the overall effort to be coordinated and performed by the Division of Quality Assurance (DQA) to establish a QA program for TVA. Engineering or quality assurance programs developed by OE must be evaluated and approved by DQA for the Office of Nuclear Power (ONP) as required by ANSI N45.2.13 and a more cohesive OE program should be the result. NSRS closed R-81-14-OEDC(BLN)-17 for record purposes. For the purpose of verifying corrective action taken, the essence of this item--establishment and implementation of a comprehensive program capable of achieving and assuring quality in design--is being incorporated into R-84-32-NPS-01.

4. R-81-14-OEDC(BLN)-18, Failure to Establish Detailed QA Policy

Summary of Original Finding

EN DES failed to establish a comprehensive detailed QA policy, especially regarding procedural compliance and review of EPs for adequacy.

Current Status

The Manager of OE had issued a memorandum of quality policy to be included in OE Administrative Instructions. This overall quality policy statement was determined fully adequate, but the pending redesign of OE procedures requires that further verification be performed to assure the policy is incorporated into the new OE program. Therefore, for record purposes R-81-14-OEDC(BLN)-18 is closed, but for verification purposes is incorporated into R-84-32-NPS-01.

5. R-81-14-OEDC(BLN)-20, Lack of Control of Safety-Related Systems List

Summary of Original Finding

EN DES failed to develop a single controlled comprehensive listing of safety-related systems and components for BLN. This item was similar to R-82-02-WBN-07 and -09 for Watts Bar.

Current Status

In a memorandum to the Manager of the Office of Construction (OC) dated December 3, 1984, the Manager of OE stated that the baseline Q-list for BLN would be issued by February 1, 1985. As with Q-lists for other plants, it will be necessary to reach agreement among ONP, OE, AND OC on the content of this list. This effort is considered by NSRS to be part of the overall effort to develop and implement a comprehensive TVA QA program and as such is incorporated in R-84-32-NPS-01. R-81-14-OEDC(BLN)-20 is closed for record purposes.

6. R-81-14-OEDC(BLN)-23, Documentation of System Design Bases

Summary of Original Finding

EN DES was not maintaining accurate, permanent, and controlled design bases (or system descriptions) for safety systems. This item was similar to R-82-02-WBN-10 and -11 for Watts Bar.

Current Status

In response to this item and to items R-82-02-WBN-10 and -11 EN DES issued EN DES EP 3.38, "System Description Documents - Preparation, Review, and Approval," Revision 0 dated February 16, 1983, and EP 3.01, "Design Criteria Documents - Preparation, Review, and Approval," Revision 5 dated December 13, 1982. These documents specify the controls and requirements applied to the generation and maintenance of System Descriptions and Design Criteria Documents, including appropriate criteria for deactivation, and a requirement for review by NUC PR.

According to a System Description status report of December 6, 1984 for Watts Bar, over 60 systems had been designated for provision of controlled system descriptions, and a schedule for the completion of each was given. This project was estimated at approximately 50 percent complete, with all descriptions to be completed by August 1, 1985.

For BLN, the BLN design project designated personnel responsible for preparation of over 80 System Descriptions to be

generated in accordance with the procedures identified above. A schedule for the generation of the descriptions was loaded into OE's PC III computer program for tracking and reporting status and changes. Although some System Descriptions were scheduled for issue coincident with system preoperational testing, this program appeared to be adequate and in progress. This item is closed. R-82-02-WBN-10 is closed. R-82-02-WBN-11 is closed.

7. R-81-14-OEDC(BLN)-31, Failure to Input Complete Vendor Information Into the DIS

Summary of Original Finding

EN DES EPs failed to require review of vendor manuals for drawings which should be inputted to DIS, as was required by ID-QAP 6.1.

Current Status

This item is closed for record purposes and is incorporated into R-84-32-NPS-01. Refer to R-81-14-OEDC(BLN)-14, section IV.A.2.

8. R-81-14-OEDC(BLN)-32, Inadequate Storage of Audit Support Records

Summary of Original Finding

OEDC QA groups inadequately stored audit support records, e.g., documents other than the actual report and responses, such as the checklist used and the audit plan.

Current Status

The QMS Manager in an interview with NSRS agreed to enter into MEDS the issued audit report with support records such as the audit plan and checklist. The QMS Manager also stated that this control would be procedurally required under the OE procedure system. Duplicate microfilm storage meets the intent of ANSI N45.2.9 for storage of QA records. This item remains open pending approval of the procedure for QMS QA record storage.

9. R-81-14-OEDC(BLN)-41, QAB Auditor Training

Summary of Original Finding

EN DES failed to establish a written, approved program for training QA auditors.

Current Status

In an interview with NSRS the QMS Manager stated intentions to develop and approve a QMS procedure controlling the training and certification of auditors and lead auditors in accordance with ANSI N45.2.23, which addresses requirements for auditor qualifications. A draft copy of the procedure dated October 29, 1984, was provided to the reviewer and appeared adequate. This item remains open pending approval of the OE or QMS procedure for auditor training and certification.

B. R-81-31-NPS, Special Review of NUC PR Operator Training

Four items remaining open from the operator training review were reviewed during this follow-up. The four deficiencies were identified as concerns regarding training programs administered by the Power Operations Training Center. The Division of Quality Assurance completed a comprehensive audit of operator training and requalification, Audit CH-8400-07, issued July 26, 1984. This audit identified similar general and specific concerns and, in follow-up to the four NSRS findings, determined that corrective action was not yet sufficient to justify closing them. The audit was performed in accordance with TVA commitments to ANSI N45.2.12 and as such requires written response and QA verification of corrective actions taken. Therefore, NSRS has determined that the following four findings from NSRS report R-81-31-NPS are closed:

R-81-31-NPS(POTC)-01
R-81-31-NPS(POTC)-02
R-81-31-NPS(POTC)-03
R-81-31-NPS(POTC)-04

C. R-82-02-WBN, Major Management Review of Watts Bar

Seven items remaining open from the major management review of Watts Bar were followed up to verify corrective action status. Each item is identified below by its original finding designation.

1. R-82-02-WBN-03, Activities Affecting Quality

Summary of Original Finding

This finding identified inconsistencies and omissions in the overall TVA QA program, especially in the areas of identification and control of activities affecting quality and involving interdivisional/interoffice interfaces.

Current Status

The status of this item is addressed in section IV.D. For record and tracking purposes this item is closed. For verification this item is included in R-84-32-NPS-01.

2. R-82-02-WBN-07, Inaccuracies in Identifying the Scope of Work Under QA Control

Summary of Original Finding

OEDC did not provide a comprehensive, consistent, controlled listing of structures, systems, and components to which the QA program for Watts Bar was to have been applied. This item was later determined by OEDC QA to be generic to plants in the construction phase (Bellefonte).

Current Status

The Office of Quality Assurance closed this item for Watts Bar, but left it outstanding for the BLN program. As such, it is similar to item R-81-14-OEDC(BLN)-20, included in R-84-32-NPS-01. Action to achieve agreement among ONP, OC, and OE on the Q-list and its implementation for Watts Bar was scheduled to be taken prior to receipt of an operating license for Watts Bar in accordance with a commitment made to the NRC on November 28, 1984. Item R-82-02-WBN-07 is closed for record and tracking purposes. For verification purposes, this item is incorporated into R-84-32-NPS-01.

3. R-82-02-WBN-09, Lack of Control of Safety-Related Structures, Systems and Components List

Summary of Original Finding

EN DES failed to provide positive control of the identification/designation of safety-related structures, systems, and components to the extent that other organizations, notably CONST, were generating and using "safety-related lists" in the absence of clear design guidance.

Current Status

This item is closed for record and tracking purposes and is included in R-84-32-NPS-01. Refer to items R-81-14-OEDC (BLN)-20, section IV.A.5 and R-82-02-WBN-07, section IV.C.2.

4. R-82-02-WBN-10, Inadequate Documentation of Systems Design Base

Summary of Original Finding

EN DES was maintaining incomplete and inconsistent Watts Bar Design Criteria and FSAR System Descriptions. Design Criteria were not provided for some systems. This item was similar to R-82-02-WBN-11 and R-81-14-OEDC(BLN)-23.

Current Status

See section IV.A.6, R-81-14-OEDC(BLN)-23. This item is closed.

5. R-82-02-WBN-11, Improper Inactivation of Some Watts Bar Design Criteria

Summary of Original Finding

EN DES deactivated some Watts Bar Design Criteria by an uncontrolled practice. This item was similar to R-82-02-WBN-10 and R-81-14-OEDC(BLN)-23.

Current Status

See section IV.A.6, R-81-14-OEDC(BLN)-23. This item is closed.

6. R-82-02-WBN-25, Control of Protective Coating Processes

Summary of Original Finding

EN DES failed to define in a controlled design document the areas, structures, systems, and components to be protected by Service Level I protective coatings.

Current Status

The Watts Bar Q-list issued as controlled drawing 91QL series addressed and identified the areas and structures requiring Service Level I protective coating. Bellefonte controlled drawing series OGP-0025 R-0 provided similar information for that project. R-82-02-WBN-25 is closed.

7. R-82-02-WBN-26, Lack of Approved Procedures for Certain Computer Programs

Summary of Original Finding

CONST failed to provide procedural controls on the development, verification and application of computer programs used to support quality in construction such as the Universal computer program.

Current Status

This item was closed for Watts Bar but remained open for BLN as determined by OQA. An interview with the BLN Compliance supervisor revealed that essentially no progress had been made toward adequate resolution of this item. This item remains open.

D. R-81-11-WBN, Watts Bar Unit 1 - Special Review

Two programmatic findings, R-81-11-WBN-01 and -02, remained unresolved and were followed up during this review.

Summary of Original Findings

These findings reported that the TVA QA program for Watts Bar was inadequate to control or assure compliance with requirements and commitments. The report recommended that a thorough review of commitments and implementing procedures be performed by QA and that the results of that review be used to upgrade the program. These findings were considered by NSRS to be similar in nature and scope to R-82-02-WBN-03, -07, and -09, and to R-81-14-OEDC (BLN)-03, -17, -18, and -20, in that all of these findings dealt generally with examples of failures to define, prescribe, and implement the controls necessary to achieve and assure quality during the design and construction phases of nuclear plants.

The Office of Quality Assurance had planned to develop and assure implementation of an "integrated" QA program for TVA in order to resolve these deficiencies. This project, development of the Management Policies and Requirements Manual, was terminated during the TVA reorganization and formation of OPE.

Current Status

As a result of the July 1984 reorganization of the TVA Power organization, ONP, i.e., the owner-operator, was formed with broad authority and responsibility for establishing and executing an integrated QA program for the design, construction, and operation of TVA nuclear facilities. The ONP Division of Quality Assurance (DQA) was delegated the responsibility of developing and maintaining an overall nuclear QA program. DQA specified that the primary goal in the overall program development would be the definition of QA program policies and requirements applicable to the design, construction, services, and operation of nuclear facilities; and secondarily to define and develop requirements for control of key activities that had previously been inadequately controlled. DQA had issued a formal plan for development of a single QA policy- and requirement-oriented program manual, the "Nuclear Quality Assurance Manual," and scheduled its initial issue for December 31, 1984. An intended function of this manual is to replace the former upper tier program manuals, such as the Interdivisional Quality Assurance Manual, Program Requirements Manual, and Office of Power Quality Assurance Manual, which had inadequately defined and controlled requirements and interfaces.

The Office of Nuclear Power had also identified the need to restructure and upgrade ONP procedures that affect and control the quality, consistency, and safety, among other necessary attributes, of performance of ONP activities in support of ONP goals. In a memorandum dated October 29, 1984, the Manager of

ONP planned the development of a Nuclear Policies and Requirements Manual (NPRM) to establish procedural controls for areas outside the scope of the regulatory compliance-oriented nuclear QA program.

NSRS believes that unless otherwise planned, this development effort should also include the management requirements and acceptance standards for work performed for or in support of ONP by organizations such as OE and OC so that adequate performance requirements are communicated, acknowledged, and achieved throughout TVA. These items, R-81-11-WBN-01 and -02 are closed for record and tracking purposes and are included in R-84-32-NPS-01.

VI. REFERENCES

A. Nuclear Safety Review Staff Reports/Working Files

1. R-81-11-WBN, Watts Bar Special Review dated July 1, 1981 (GNS 810701 051)
2. R-81-14-OEDC(BLN), Major Management Review of the Office of Engineering Design and Construction dated September 29, 1981 (GNS 810930 054)
3. R-81-31-NPS, Special Review of Division of Nuclear Power Operator Training dated March 30, 1982 (GNS 820330 050)
4. R-82-02-WBN, Major Management Review of Watts Bar Nuclear Plant dated June 3, 1982 (GNS 820603 051)
5. R-82-14-OEDC(BLN), Routine Followup Review of R-81-14-OEDC(BLN) dated November 3, 1982 (GNS 821104 052)
6. R-82-24-WBN, Routine Followup Review of R-80-11-WBN, R-81-11-WBN, R-81-28-WBN, and R-82-02-WBN dated November 4, 1982 (GNS 821104 050)

B. Correspondence (Other than included in NSRS Report Working Files)

1. Memorandum from H. N. Culver to J. W. Anderson dated December 29, 1982, "Transfer of Responsibility for Followup and Action on Nuclear Safety Review Staff Review Report Findings (GNS 821229 151)
2. Memorandum from J. W. Anderson to H. N. Culver dated September 27, 1984, "Reassignment of NSRS Items" (OQA 840927 002)
3. Memorandum from H. N. Culver to J. W. Anderson dated December 5, 1984, "Reassignment of NSRS Items" (GNS 841205 050)

4. Memorandum from J. W. Anderson to H. N. Culver dated June 13, 1984, "Updated Responses to NSRS Open Items (OQA 840613 002)
5. Memorandum from J. W. Anderson to H. N. Culver dated August 8, 1984, "Updated Responses to NSRS Open Items (OQA 840808 001)
6. Memorandum from R. M. Hodges to Those listed dated April 11, 1983, "Bellefonte Nuclear Plant - System Descriptions Assignments List" (BLP 830411 011)
7. Memorandum from J. L. Wright to Bellefonte Design Project Files dated April 7, 1983, "System Description Assignments List Coordination Meeting - Notes" (BLP 830405 024)
8. Memorandum from J. W. Anderson to G. H. Kimmons dated December 17, 1983, "NSRS Report R-81-14-OEDC(BLN) - Program Implementation Inadequacies of Engineering Procedures - Item 17" (OQA 831219 003)
9. Letter from J. W. Hufham to J. P. O'Reilly, NRC, dated November 28, 1984, "Watts Bar Nuclear Plant Units 1 and 2 - NRC-OIE Region II Inspection Report 50-390/82-09, 50-391/82-07 - Fourth Revised Response to Item 2" (L44 841128 809)
10. Memorandum from J. C. Standifer to Those listed dated December 6, 1984, "Watts Bar Nuclear Plant System Description - Schedule Update" (WBN 841206 006)
11. Memorandum from R. W. Cantrell to J. W. Anderson dated February 27, 1984, "NSRS Report R-81-14-OEDC(BLN) - Program and Implementation Inadequacies of Engineering Procedures - Item 17" (EEB 840227 001)
12. Memorandum from W. D. Poling to Those listed dated December 3, 1984, "QA Requirements for Regulated Programs" (L00 841203 921) and attachments
13. Memorandum from R. J. Mullin to Those listed dated December 10, 1984, "Quality Assurance Activities Transferred from the Office of Quality Assurance to Other Power and Engineering Organizations" (L16 841207 941)
14. Memorandum from J. P. Darling to Those listed dated October 29, 1984, "Restructuring of Office of Nuclear Power (NUC PR) Procedures" (L00 841025 873)
15. Draft memorandum from J. E. Law to H. N. Culver, "NSRS Deviation R-82-02-WBN-01"
16. Memorandum from J. E. Law to W. R. Brown and R. M. Pierce dated December 4, 1984, "Nuclear Quality Assurance Manual (OQAM) - Owner/Operator Responsibility and Authority" (L16 841204 938)

17. Memorandum from J. P. Darling to J. W. Anderson and R. J. Mullin dated August 9, 1984, "Establishment of Division of Quality Assurance (DQA) - Office of Nuclear Power (NUC PR) - (L20 840809 801)
18. Memorandum from H. N. Culver to J. W. Anderson dated April 27, 1984, "Nuclear Safety Review Staff (NSRS) Open Items" (GNS 840427 050)
19. Memorandum from J. P. Darling to Those listed dated November 11, 1984, "Overall Nuclear Quality Assurance Program - Policy and Status" (L16 841023 885)
20. Memorandum from J. P. Darling to Those listed dated October 1, 1984, "TVA Interdivisional Quality Assurance Procedures Manual (IPM)" (L16 840917 840)
21. Memorandum from J. Killian to J. P. Darling dated July 26, 1984, "OQA Audit Report No. CH-8400-07, Operator Training and Retraining" (OQA 840726 702)
22. Memorandum from R. W. Cantrell to J. W. Anderson dated March 23, 1984, "Watts Bar Nuclear Plant - NSRS Report No. R-82-02-WBN, ITEM NOS. -09, -10, -11, AND -25" (FSB 840323 004)

C. OQA Working Files, NSRS Open Items

D. Procedures

1. EN DES EP-3.37 R0 dated February 26, 1983, "System Description Documents - Preparation, Review, and Approval"
2. EN DES EP-3.01 R5 dated December 13, 1982, "Design Criteria Documents - Preparation, Review, and Approval"
3. 45D from J. S. Colley to QAC Employees dated December 12, 1984, transmitting pen and ink change to EN DES EP-1.29, "EN DES Quality Audit Program"
4. Draft QMS-EP Certification of Audit Personnel - received from J. S. Colley December 12, 1984

GOVERNMENT

Memorandum

TENNESSEE VALLEY AUTHORITY

GNS '841205 050

Anderson, Manager of Quality Assurance, 255 SPB-K

Culver, Director of Nuclear Safety Review Staff, 249A HBB-K

September 5, 1984

ASSIGNMENT OF NSRS ITEMS

Reference: Your memorandum to me dated September 27, 1984, same subject
(OQA 840927 002)

NSRS accepts the responsibility to follow-up and close the remaining open items listed in the corrected attachment 1 to the referenced memorandum.

Follow-up review to ascertain the status of actions taken to correct these items will be performed in December 1984. NSRS engineers will work through the quality organizations identified in attachment 2 to the referenced memorandum to determine whether or not the individual items may be closed.

Quality organizations which may be asked to assist in the follow-up are identified by copy of this memorandum. A copy of the referenced attachment 2 is attached for information and convenience.

If you have any questions concerning this, please contact Michael Harrison at extension 4816 in Knoxville.

H. N. Culver
H. N. Culver

Attachment

(Attachment):

E. G. Beasley, W12C61 C-K
C. Bonine, Jr., 12-108 SB-K
W. Cantrell, W11A9 C-K
P. Darling, 1750 CST2-C
J. Dibeler, 128 SPB-K
J. Mullin, 1735 CST2-C
G. Parris, 500A CST2-C
S, W5B63 C-K

14. R-81-31-NPS(PO1 -04. Lesson plan required. See OQA 840705 704, requests additional action (DQA).
15. R-82-02-WBN-7. Area of interface controls inadequate. ID-QAP revised. Closed for WBN; remains open for BLN. (CQAB)
16. R-82-02-WBN-9. See ESB 840802 002. Procedure to be revised by 10/15/84. (QMS)
17. R-82-02-WBN-10. Systems design basis. BLN schedule 1984 through 1985; schedule for SQN not resolved. (QMS) It is recommended that this item be resolved by NSRS.
18. R-82-02-WBN-11. Design criteria. OQA 830809 001 requires revision to EP 3.01. OQA 840227 500 request for status. (QMS)
19. R-82-02-WBN-25. Protective coating. This item dependent on item -09 Q List. Protection coating should be identified in Q List. This item cannot be closed until Q List problem resolved. See -09 for comment. (QMS)
20. R-82-02-WBN-26. Construction did not have approved quality assurance procedures for the generation and control of computer programs. QCI 1.40 revised. This item closed for WBN (OQA 830603 001) open for generic to BLN. (CQAB)