

*Rec'd with letter
dtd 11/3/93*

OFFICE OF CIVILIAN RADIOACTIVE WASTE MANAGEMENT

QUALITY ASSURANCE AUDIT PLAN

FOR AUDIT YMP-94-02

OF

REYNOLDS ELECTRICAL AND ENGINEERING COMPANY, INC.

LAS VEGAS AND THE YUCCA MOUNTAIN SITE, NEVADA

DECEMBER 6 THROUGH 10, 1993

Prepared by: *Donald J. Harris* Date: *11-1-93*
Donald J. Harris
Audit Team Leader
Yucca Mountain Quality Assurance Division

Approved by: *Donald G. Horton* Date: *11/2/93*
Donald G. Horton
Director
Office of Quality Assurance

102.7

1.0 SCOPE

This performance based audit of Reynolds Electrical and Engineering Company, Inc. (REECo) will be a limited scope audit, performed by a team of auditors from the Yucca Mountain Quality Assurance Division (YMQAD). The audit team will evaluate the effectiveness of selected processes and the quality of the resultant end products identified in Section 4.0 of this plan associated with REECo activities performed under Quality Assurance (QA) Program Elements 4.0, "Procurement" and 7.0, "Control of Purchased Items and Services".

2.0 AUDIT SCHEDULE

Preaudit Team/Observer Meeting	8:00 a.m., December 6, 1993 Las Vegas, Nevada
Preaudit Conference	9:00 a.m., December 6, 1993 Las Vegas, Nevada
Audit Activities	10:00 a.m. to 4:00 p.m. December 6, 1993 Las Vegas, Nevada
	8:00 a.m. to 4:00 p.m. December 7 through 9, 1993
	8:00 a.m. to 11:30 a.m. December 10, 1993
Daily Team Debriefing	4:00 p.m., December 6 through 9, 1993
Postaudit Conference	2:00 p.m., December 10, 1993 Las Vegas, Nevada

3.0 REQUIREMENTS TO BE AUDITED AND APPLICABLE REFERENCES

The requirements to be audited will be contained in performance based checklists. These checklists will be developed from the latest revision of REECo's approved and issued QA program procedures applicable to selected procurement processes and performance objectives established and agreed upon with REECo management.

The conduct of the audit will be guided by the documents listed below:

Quality Assurance Administrative Procedure (QAAP) 18.2, Revision 5, ICN 1,
"Audit Program"
QAAP 16.1, Revision 4, "Corrective Action"

4.0 ACTIVITIES TO BE AUDITED

The audit team will evaluate the effectiveness of the following processes in meeting program requirements and management commitments and expectations:

- 1) Procurement and processing of commercial grade items; and
- 2) Contract preparation and award

The end products resulting from the above processes that have been selected for evaluation are:

- 1) Rock bolts; and
- 2) Contract for Kiewit/PB

The evaluation of process effectiveness and product acceptability will be based upon:

- 1) Proper implementation of the critical process steps;
- 2) Use of trained and qualified personnel working effectively;
- 3) Safety, quality and cost conscious attitudes during performance;
- 4) Documentation that substantiates quality of the products; and
- 5) Acceptable results and quality of the end products.

5.0 AUDIT TEAM MEMBERS

Donald J. Harris, YMQAD/Quality Assurance Technical Support Services (QATSS), Las Vegas, Nevada, Audit Team Leader

John S. Martin, YMQAD/QATSS, Las Vegas, Nevada, Auditor

Cynthia Humphries Prater, YMQAD/QATSS, Las Vegas, Nevada, Auditor

Charles C. Warren, YMQAD/QATSS, Las Vegas, Nevada, Auditor

6.0 AUDIT CHECKLISTS

YMP-94-02-01, Performance Based Checklist, will be used during this audit.

REEC_o TENTATIVE SCHEDULE OF AUDIT ACTIVITIES

MONDAY, 12/6/93	TUESDAY, 12/7/93	WEDNESDAY, 12/8/93	THURSDAY, 12/9/93	FRIDAY, 12/10/93
<p>8 am - Team/Observer Mtg. 9 am - Preaudit Conf. 10 am - Audit Activities</p> <p>D. Harris/C. Warren Procurement of Services</p> <p>J. Martin/C. Humphries Rockbolts and Accessories</p>	<p>8:15 am - TPO Mtg.</p> <p>D. Harris/C. Warren Procurement of Services</p> <p>J. Martin/C. Humphries Rockbolts and Accessories</p>	<p>8:15 - TPO Mtg.</p> <p>C. Warren Procurement of Services</p> <p>D. Harris Corrective Actions</p> <p>J. Martin/C. Humphries Rockbolts and Accessories</p>	<p>8:15 am - TPO Mtg.</p> <p>C. Warren Procurement of Services</p> <p>D. Harris Corrective Actions</p> <p>J. Martin/C. Humphries Rockbolts and Accessories</p>	<p>8:15 - TPO Mtg.</p> <p>C. Warren Procurement of Services</p> <p>D. Harris Corrective Actions</p> <p>J. Martin/C. Humphries Rockbolts and Accessories</p>
<p>LUNCH 11:30 - 12:30</p>	<p>LUNCH 11:30 - 12:30</p>	<p>LUNCH 11:30 - 12:30</p>	<p>LUNCH 11:30 - 12:30</p>	
<p>D. Harris/C. Warren Procurement of Services</p> <p>J. Martin/C. Humphries Rockbolts and Accessories</p>	<p>D. Harris/C. Warren Procurement of Services</p> <p>J. Martin/C. Humphries Rockbolts and Accessories</p>	<p>C. Warren Procurement of Services</p> <p>D. Harris Corrective Actions</p> <p>J. Martin/C. Humphries Rockbolts and Accessories</p>	<p>C. Warren Procurement of Services</p> <p>D. Harris Corrective Actions</p> <p>J. Martin/C. Humphries Rockbolts and Accessories</p>	<p>2 pm - Postaudit Conf.</p>
<p>4 pm - Team/Observer Caucus</p>	<p>4 pm - Team/Observer Caucus</p>	<p>4 pm - Team/Observer Caucus</p>	<p>4 pm - Team/Observer Caucus</p>	

Performance Based Auditor Instructions

A Performance-Based Audit is when an auditor performs a direct observation of an activity in process; interviews the auditees personnel; reviews the pertinent document for performance based information in the selected area designated. The auditor then analyzes and evaluates the information gained through this process to form an opinion on whether the performance is satisfactory or unsatisfactory.

If the auditor encounters problems during a performance-based evaluations the auditor should determine if the problem is specific or wide spread; and if the root cause can be traced to either procedures and controls, training, work control or other problems. If the problem has not been previously identified, the auditor should determine why it was missed.

The auditor should use the same sequence when conducting a document evaluation. The document relating to the performance of the activity, is examined first. If problems are encountered, the auditor will need to investigate the back ground and supporting information to determine the root cause of the identified problem.

When the identified problem is a violation of the QARD requirements or procedure violation a corrective action request will be issued. Other problems will be identified in the audit report with recommendations. When appropriate the audit report will request a written response from the auditee on the disposition of the problem.

Remember, for performance based audits, quality assurance is not a division or department, a manual, or a program: it is a state of mind. The quality assurance function should not be regarded as the sole-domain of the quality assurance organization; it is everyone's responsibility.

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QUALITY ASSURANCE CHECKLIST

ORGANIZATION EVALUATED	<input checked="" type="checkbox"/> EXTERNAL	<input checked="" type="checkbox"/> AUDIT	PREPARED BY <u>(See Below)</u> DATE <u>12/1/93</u>	
REECo	<input type="checkbox"/> INTERNAL	<input type="checkbox"/> SURVEILLANCE		
DATES OF EVALUATION				
12/6-10/93				
CONTROLLING DOCUMENT (Title, Number, Revision)			ACTIVITY EVALUATED	
OCRWM DOE/RW-0214, Revision 4			(See Below)	
ITEM NO.	CHARACTERISTICS TO BE EVALUATED	REMARKS	* RESULTS	
	<p>AUDIT YMP-94-02</p> <p>PERFORMANCE BASED AUDIT OF QA PROGRAM ELEMENTS 4.0, PROCUREMENT DOCUMENT CONTROL AND 7.0, CONTROL OF PURCHASED ITEMS AND SERVICES. THE AUDIT WILL EVALUATE THE EFFECTIVENESS OF:</p> <ul style="list-style-type: none"> o PROCUREMENT OF SERVICES o PROCUREMENT OF ROCKBOLTS AND ACCESSORIES o CORRECTIVE ACTION RELATED TO QA PROGRAM ELEMENTS 4.0 AND 7.0 <p>PREPARED BY: DONALD J. HARRIS, CHARLES C. WARREN, JOHN S. MARTIN AND CYNTHIA A. HUMPHRIES</p>	Record objective evidence reviewed, method of verification, personnel contacted		

* INDICATE RESULTS: SATISFACTORY (SAT), UNSATISFACTORY (UNSAT), NOT APPLICABLE (N/A)

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ITEM NO.	CHARACTERISTICS TO BE EVALUATED	REMARKS Record objective evidence reviewed, method of verification, personnel contacted	RESULTS
1 ✓	<p>PROCUREMENT OF SERVICES</p> <p>Determine through the review of the Peter Kewit contract that scope of work, technical requirements, bases for acceptance and QA requirements, are consistent with the procurement request from the requester.</p>		
2 ✓	<p>Determine through the review, that controls were in place to ensure the applicable regulatory requirements and design bases were included or referenced in the procurement document.</p>		

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ITEM NO.	CHARACTERISTICS TO BE EVALUATED	REMARKS Record objective evidence reviewed, method of verification, personnel contacted	RESULTS
3 ✓	<p>Determine through the review that the contract contains the requirements for:</p> <ul style="list-style-type: none"> a) The supplier to have a documented QA program based on the scope of the contract. b) The supplier to pass on the appropriate QA requirements to any sub tier. c) Identifies documents of the purchaser/client that implements requirements applicable to the supplier. d) Address rights of access for inspection or audit by the purchaser, OCRWM or designee authorized by the purchaser. e) Provision for establishing hold points. ? f) Documents required to be submitted for information, review or acceptance and timeframe for submittal. g) Address QA records, retention time, and disposition requirements. h) Nonconformances and purchasers approval of use as-is and repair dispositions. 		

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ITEM NO.	CHARACTERISTICS TO BE EVALUATED	REMARKS Record objective evidence reviewed, method of verification, personnel contacted	RESULTS
4 ✓	Review the <u>approved procurement document</u> and determine if it was reviewed by the REECO technical and quality organizations.		
5 ✓	Review the Procurement Document Package and determine if it was classified as quality-affecting (it is important to waste isolation/it is important to safety).		
6 ✓	Review the Request for Quotation (RFQ) to ascertain if it contained a detailed description (scope) of work reflective of the requesters procurement request and the RFQ was issued to two or more prospective sellers.		

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ITEM NO.	CHARACTERISTICS TO BE EVALUATED	REMARKS Record objective evidence reviewed, method of verification, personnel contacted	RESULTS
7 ✓	Verify the Technical Evaluation Team evaluated the RFQ submittals to predetermined criteria and issued a Technical Evaluation Team Report.		
8	Verify that controls for procurement of quality-affecting services are adequate to assure that the providers are technically capable of performing the services in accordance with the procurement document requirements.		

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ITEM NO.	CHARACTERISTICS TO BE EVALUATED	REMARKS Record objective evidence reviewed, method of verification, personnel contacted	RESULTS
9	Verify the Logistical Support Department Chief Purchasing Agent, resolves or obtains commitments to resolve unacceptable conditions resulting from the bid evaluations.		
10 ✓	Verify that adequate controls have been applied to the evaluation and approval of the quality programs for suppliers of quality-affecting services.		

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ITEM NO.	CHARACTERISTICS TO BE EVALUATED	REMARKS Record objective evidence reviewed, method of verification, personnel contacted	RESULTS
11 ✓	Verify the Logistical Support Department Chief Purchasing Agent awards the subcontract for quality-affecting work only to a supplier with a quality program approved by the PQAM.		
12 ✓	Verify the quality program was approved by the PQAM and the supplier placed on the Approved Suppliers List (ASL) prior to the procurement section awarding the subcontract.		

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ITEM NO.	CHARACTERISTICS TO BE EVALUATED	REMARKS Record objective evidence reviewed, method of verification, personnel contacted	RESULTS
13 ✓	Verify the subcontract file contains a copy of the suppliers PQAM approved quality manual.		
14 ✓	Verify that controls for the verification of quality-affecting services are adequate to determine compliance with quality requirements.		
15 ✓	Verify that REECO's implementing procedures/instructions for procurement of services provide adequate controls to meet QA program requirements.		

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ITEM NO.	CHARACTERISTICS TO BE EVALUATED	REMARKS Record objective evidence reviewed, method of verification, personnel contacted	RESULTS
16 ✓	Verify that personnel performing quality-affecting work related to procurement of services possessed appropriate qualifications prior to conducting the work.		
17 ✓	Verify that qualification requirements for personnel performing quality-affecting work related to procurement of services are commensurate with personnel duties and responsibilities.		
18 ✓	Verify required reading performed by personnel performing quality-affecting work related to procurement of services appropriate to conduct their work.		

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ITEM NO.	CHARACTERISTICS TO BE EVALUATED	REMARKS Record objective evidence reviewed, method of verification, personnel contacted	* RESULTS
19 ✓	Is the process used to procure the Peter Kewit contract considered to be effective?		
20 ✓	Will the Peter Kewit contract accomplish the desired intent and add quality (i.e. value added) to the program?		

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ITEM NO.	CHARACTERISTICS TO BE EVALUATED	REMARKS Record objective evidence reviewed, method of verification, personnel contacted	RESULTS
1	<p>PROCUREMENT OF ROCKBOLTS AND ACCESSORIES</p> <p>Procurement Requirements:</p> <p>Determine that controls for the stipulations of QA requirements, technical requirements and design basis requirements are instituted for procurement activities.</p>		
2	<p>Procurement Ordering:</p> <p>Assess whether reviews and approvals of procurement documents are completed prior to the letting of Purchase Orders (POs).</p>		

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ITEM NO.	CHARACTERISTICS TO BE EVALUATED	REMARKS Record objective evidence reviewed, method of verification, personnel contacted	RESULTS
3	<p>Procurement Qualification of Suppliers:</p> <p>Determine that suppliers of quality-affecting items (rockbolts and accessories) were qualified prior to the letting of the PO or that a material dedication methodology is utilized.</p>		
4	<p>If a material dedication program is utilized, assess the controls in place for the determination of conformance to QA requirements, technical requirements and basis of design documents.</p>		

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ITEM NO.	CHARACTERISTICS TO BE EVALUATED	REMARKS Record objective evidence reviewed, method of verification, personnel contacted	RESULTS
5	<p>Receipt of Procured Items:</p> <p>Determine that upon receipt of items adequate controls are in place for receipt inspection and acceptance. In addition, determine that attributes relative to acceptance criteria are in agreement with QA requirements, technical requirements and design basis documents.</p>		
6	<p>Determine that controls are in place for the status of materials relative to their acceptability.</p>		
7	<p>Determine whether measures for the control (i.e. marking and/or labeling) of materials assures traceability to shipments received and receipt inspections documentation.</p>		

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ITEM NO.	CHARACTERISTICS TO BE EVALUATED	REMARKS Record objective evidence reviewed, method of verification, personnel contacted	* RESULTS
8	<p>Qualification of Personnel:</p> <p>Determine the adequacy of the controls in place for the qualification and certification of inspection personnel.</p>		
9	<p>Determine that personnel performing quality-affecting work related to procurement services have an adequate understanding of procedural requirements and that training is current.</p>		
10	<p>Handling, Shipping and Storage:</p> <p>Determine the adequacy of handling and storage of materials (rockbolts and accessories) and that controls are in place for preservation, handling, storage, cleaning (as required) and shipping of materials.</p>		

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ITEM NO.	CHARACTERISTICS TO BE EVALUATED	REMARKS Record objective evidence reviewed, method of verification, personnel contacted	RESULTS
11	Is the process used for procurement of the rockbolts considered to be effective?		
12	Will the rockbolts satisfy the desired intent and provide value added to the program?		

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ITEM NO.	CHARACTERISTICS TO BE EVALUATED	REMARKS Record objective evidence reviewed, method of verification, personnel contacted	RESULTS
1	<p>CORRECTIVE ACTIONS RELATED TO QA PROGRAM ELEMENTS 4.0 AND 7.0</p> <p>Perform a detailed analysis of existing and former problems identified during the previous 12 months for problems associated with QA Program Elements 4.0, Procurement Document Control and 7.0, Control of Purchased Items and Services. Document the selected documents evaluated, and the associated problem and the identified cause. Consider the following documents:</p> <ul style="list-style-type: none"> o Corrective Action Requests (CAR) o Nonconformance Reports (NCRs) o Management Assessments o Monthly Reports o Trend Program 		

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ITEM NO.	CHARACTERISTICS TO BE EVALUATED	REMARKS Record objective evidence reviewed, method of verification, personnel contacted	RESULTS
2	Based on the results of checklist question No. 1, determine if the CAR and NCR remedial action was appropriate, and for those requiring action to preclude recurrence, was the proposed action appropriate to resolve future problems?		
3	Have management assessments identified problems in QA Program Elements 4.0 and 7.0, and if so, has the problem been resolved promptly and completely?		

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ITEM NO.	CHARACTERISTICS TO BE EVALUATED	REMARKS Record objective evidence reviewed, method of verification, personnel contacted	RESULTS
4	Has a trend program been established and do the trend program reports reflect the CAR and NCR generated in the area of interest?		
5	Did the responsible organization follow-up corrective actions in an aggressive manner, and did they interface with the quality verification organization in developing their proposed corrective actions?		

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ITEM NO.	CHARACTERISTICS TO BE EVALUATED	REMARKS Record objective evidence reviewed, method of verification, personnel contacted	RESULTS
6	Have corrective actions remained open for an excessive amount of time based on what would be expected for resolution of the identified problem?		
7	Were requests for extensions repeatedly requested for deficiency documents requiring corrective action, and if so, was documented justification furnished?		

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ITEM NO.	CHARACTERISTICS TO BE EVALUATED	REMARKS Record objective evidence reviewed, method of verification, personnel contacted	RESULTS
8	Is the Trend Report distributed to the appropriate managers identified on the REECo YMP organization chart?		
9	Is REECo management system for tracking deficiencies updated to reflect current status and is the Tracking System Report distributed to the organizations responsible for the corrective action?		

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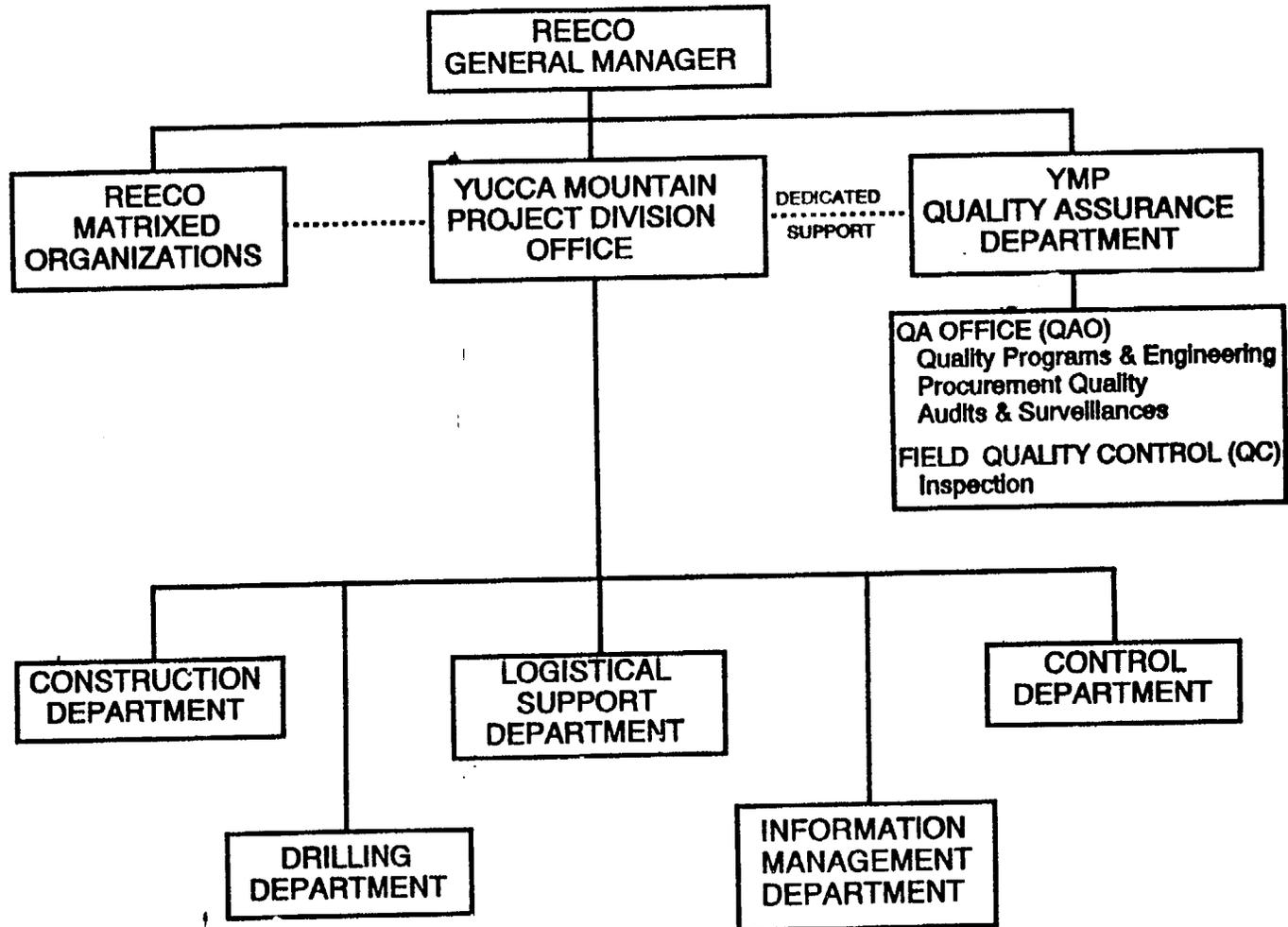
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ITEM NO.	CHARACTERISTICS TO BE EVALUATED	REMARKS Record objective evidence reviewed, method of verification, personnel contacted	RESULTS
10	<p>Interview the REECO management personnel that are related to problems associated with procurement and control of purchased items and services, and determine based on the interviews if:</p> <p>a) Communications and cooperation between the functional disciplines, line management, and the verification organization is adequate and responsive to each others needs.</p> <p>b) Do the responsible managers review the deficiency reports and provide direction for the resolution of the deficiency, or do they leave the resolution to their staff?</p> <p>c) Do the responsible managers review both the internal and external audit reports and management assessments, and consider incorporation of the recommendations?</p> <p>d) Does the responsible management review the deficiency tracking system report and monitor it for status of their organization's corrective action responsibilities? Do the managers have the report readily available?</p> <p>e) Is there a mechanism to escalate problems to upper-management? If so, identify the process or procedure.</p>		



Reynolds Electrical & Engineering Co., Inc.
YUCCA MOUNTAIN PROJECT



———— SOLID LINES INDICATE DIRECT REPORTING
..... DASHED LINES INDICATE SUPPORT REPORTING

REEC_o YUCCA MOUNTAIN PROJECT
TELEPHONE LIST - MAY 13, 1993

NAME	PHONE #	M/S	ROOM #	NAME	PHONE #	M/S	ROOM #
ALLEN, JOHN R.	5-3974	750	NONE	MATHIAS, SHIRLEY A.	5-0745	404	P107
ARNOLD, JAMES M.	4-7258	408	1116	MCCRACKEN, MICHAEL W.	5-5017	404	P108
ATKINSON, LAVELL P.	5-6019	750	C2	MCGOLDRICK, JOHN P.	5-2007	404	A114
BARKER, M. CONNIE	4-7198	408	1122	MC MULLEN, ANNA L.	4-7326	408	1143
BENNETT, NATHAN R.	4-7298	408	1137	MEDEARIS, BILL R.	4-7300	408	1118
BROD, ROBIN L.	4-7299	408	1110	MEMMOTT, BRIAN J.	5-6676	750	C8
BROWN, JAMES L.	5-4689	735	W169	MOULDER, DEE M. D.	4-7498	408	1109
BRYANT, E. PAUL	5-3696	730	W235	MOUSER, EVERT R.	5-4620	730	W235
BUCHANAN, MAGGIE B.	4-7560	408	1125	NIDY, DONNA L.	4-7183	407	P106
BUSICK, DAVID L.	5-3694	730	W235	NIETSCH, BAMBI L.	4-7257	408	1112
CAMPANARO, MARY C.	4-7566	408	1146	NORRIS, LINDA F.	5-5987	750	W142
CATOZZI, JOE A.	5-6072	750	W142	OLSON, CRYSTAL L.	4-7323	408	1143
CONSTABLE, JUAN ..	4-7317/5-6442	408	1107	PACHECO, KAREN A.	5-6060	735	W132
COSTELLO, PAUL	5-6649	750	C2	PATEL, KANTI S.	5-4990	750	W142
CURLEE, JOYCE M.	5-6078	751	W136	PATEL, MADHU G.	4-7296	408	1119
DAVENPORT, CATHY	5-5985	750	CS	PRESSMAN, VIVIAN A.	5-4824	404	A104
DORSEY, MARY JO	4-7537	407	P106	PRITCHETT, BOB R. F.	4-7561	408	1125
DURHAM, SANDRA D.	5-6011	750	CS	REINAN, CURT V.	5-5019	404	A104
FAISS, E. JEANNIE	4-7320	408	1123	REITER, EMILY S.	4-7317	408	1107
FOGER, OSCAR C.	5-6019	750	C2	ROMERO, ED G.	4-7302	425	P107
FRIEND, MICHELLE F.	4-7300	408	1115	ROMMEL, BOB R. R.	5-6008	750	W142
GARDELLA, BRUCE R.	4-7309	408	1115	ROOSA, BARBARA A.	4-5332	407	P106
GEIMER, JOE D.	5-3694	730	W235	SAXON, LARRY F.	5-5838	751	SBDK
GLASSER, BILL W. J.	4-7562	408	1111	SCHUETTE, R. P.	5-6706	750	C2
GRACI, CINDY M.	5-6077	751	W136	SHINGLETON, RANDY A.	4-7312	408	1119
GRATZA, BILL J.	4-7316	408	1107	SNYDER, JO N.J.	4-7909	523	P220
HACKBERT, DAVE A.	4-7315	408	1108	SORENSEN, VAL L.	5-6040	735	W142
HANNAWAY, DIANE C.	4-7300	408	W142	STEIHN, ANGELA D.	4-7790	408	1110
HANSEN, BONNIE J.	5-6079	735	W132	STRAUB, STEVE O.	4-7564	408	1120
HARVEY, CHARLES D.	4-7069	408	1109	SUNDAY, RAYMOND D.	5-4750	404	A103
HAYES, MAIRE P.	5-5428	751	W138	TREIDER, PAULA R.	5-2061	404	A109
HEDLUND, JON P.	5-4991	750	W142	TRUCE, ARLENE K.	4-7565	408	1146
HEMBREE, D. J.	5-6705	750	NONE	UHRHAN, MARGARET A. ...	5-3678	730	W235
HENZE, JIM L.	5-6037	735	W142	WARRINER, DAVE R.	4-7950	523	P9
HICKS, GLENN R.	4-7259	408	1115	WASSON, BARRY G.	5-5064	404	A108
HICKS, WILLIE	5-3988	750	NONE	WATSON, MARGIE R.	5-4881	751	W138
HODGES, KRISTI A.	4-7319	408	1108	WEST, JOHN W.	4-7563	408	1147
HUGHES, SANDI L.	4-7192	408	1114	WESTBY, ANDY J. A.	4-1957	408	1145
JACKSON, ELLA J.	5-6798	725	W169	WILD, COLLEEN K.	4-7329	408	1115
JOYCE, RICKY J. R.	5-6056	751	W166	WILHELM, BRUCE L.	4-7304	408	1116
KEATING, JAY J.	5-5850	750	C8	WILLIAMS, BETTY C.	4-7702	408	1122
KELLNER, DICK L.	4-7324	408	1121	WILLIAMS, WILLY E. K.	5-3697	730	W235
KEY, CLIFF D. P4-6269	5-5933	735	W265	WILSON, MARK J.	4-7311	408	1119
KNIGHT, DEAN L.	4-7400	408	1118	WILSON, PERRY J.	4-7051	408	1137
KNOTT, RENE' R.	4-7193	408	1114	WONDERLY, DAVE M.	5-6069	751	W138
KOSS, DAN L.	4-1598	408	1125	ZIEHM, SUE A.	4-7328	408	1112
KOVACH, RON R.	5-3974	750	NONE				
LANDEROS, KRISTI L.	4-7321	408	1143				
LEONARD, TOM M.	5-5983	750	CS				
LESKE, RANDY H.	4-7700	408	1121				
LIMON, TINA K. L.	4-7308	408	1113				
LOFTFIELD, SCOTT J.	5-3694	730	W235				
LORENZ, JERRY J.	4-7912	523	P281				
MADDOX, ROBERT W.	4-7302	425	P107				
MASON, CLARENCE J.	5-6076	751	W136				
MATTERN, GLORIA B.	4-7153	408	1140				
MATTHEWS, CINDY L.	4-7030	408	1140				

Facsimile Numbers

Las Vegas:

Bank of America	4-7322
Procurement	5-1865
Area 25:	
Drilling	5-4840
Construction	5-6041

Legend

A - Arville C - Bldg. 4314 (A25) P - Parking Garage (BOA)
SBDK - Subdock (A25) W - Bldg. 4015 (A25)
None - Bldg. 4001 Other - Bank of America (BOA)

IF THERE ARE ANY CHANGES/ADDITIONS, PLEASE CALL ISC AT 4-7323 OR 4-7321.

RTND
Oct . 8:17 AM

Requirements of Utility Network
Requirement: ix Report
Document owner, id: O... DOE/RW-0333P QARD
Revision & Change: 0

Ver (1 t)

Requirement status	Requirement id	Implementing document owner	document id	Rev & Chg/ Effective	Implementation status	requirement
	4.2.1A. REECO implements by:	REECO	MC-03.4	0	C C	(verified) ~6.1.2.1
	4.2.1B.1. REECO implements by:	REECO	MC-03.0	1	C C	(verified) ~6.1.6.2.3
	4.2.1B.2. :1s REECO implements by:	REECO	MC-03.0	1	C C	(verified) ~6.1.6.2.3.1
	4.2.1B.2. :2s REECO implements by:	REECO	MC-03.0	1	C C	(verified) ~6.1.6.2.3.1
	4.2.1B.3. REECO implements by:	REECO	MC-03.0	1	C	(verified) ~6.1.6.2.3.2
	4.2.1C.1. :1s REECO implements by:	REECO	MC-02.0	2	C C	(verified) ~6.2 (IBR) REECO MC-02.3 6.2
	4.2.1C.1. :2s REECO implements by:	REECO	MC-03.0	1	C C	(verified) ~6.6.2
	4.2.1C.2. REECO implements by:	REECO	MC-03.0	1		(verified) ~6.0
	4.2.1C.3. :1s REECO implements by:	REECO	MC-03.0	1	C C	(verified) ~6.6.3
	4.2.1C.3. :2s REECO implements by:	REECO	MC-03.0	1	C C	(verified) ~6.6.3
	4.2.1D. REECO implements by:	REECO	MC-03.0	1	C C	(verified) ~6.1.6.2.7.1

~ = Not yet accepted
(IBR) = Incorporated By Reference

Requirement status	Requirement id	Implementing document owner	document id	Rev & Chg/ Effective	Implementation status	requirement
	4.2.1E. REECO implements by:	REECO	MC-03.0	1	C C	(verified) ~6.1.6.2.7.2
	4.2.1F. REECO implements by:	REECO	MC-03.0	1	C C	(verified) ~6.1.6.2.7.3
	4.2.1F.1. REECO implements by:	REECO	MC-03.0	1	C C	(verified) ~6.1.6.2.7.3
	4.2.1F.2. REECO implements by:	REECO	MC-03.0	1	C C	(verified) ~6.1.6.2.7.3
	4.2.1G. REECO implements by:	REECO	MC-03.0	1	C C	(verified) ~6.10 (IBR) REECO MC-11.2 6.1
	4.2.1H. REECO implements by:	REECO	MC-03.0	1	C C	(verified) ~6.1.6.2.7.4
	4.2.2A. REECO implements by:	REECO	MC-03.0	1	C C	(verified) ~6.1.11
	4.2.2B. REECO implements by:	REECO	MC-03.0	1	C C	(verified) ~6.1.11
	4.2.2C. REECO implements by:	REECO	MC-03.4	0	C C C	(verified) ~6.1.2 ~6.1.3
	4.2.2D. REECO implements by:	REECO	MC-03.4	0	C C C	(verified) ~6.1.2 ~6.1.3
	4.2.2E. REECO implements by:	REECO	MC-03.4	0	C C	(verified) ~6.1.2

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Requirement status	Requirement id	Implementing document owner	document id	Rev & Chg/ Effective	Implementation status	requirement
	4.2.2E. REECO implements by:	REECO	MC-03.4	0	C C	(verified) ~6.1.3
	4.2.2F. REECO implements by:	REECO	MC-03.1	1	C C	(verified) ~6.3.3.2
	4.2.3A. REECO implements by:	REECO	MC-03.1	1	C C	(verified) ~6.3.5.2 (IBR) REECO MC-03.4 6.4.2
	4.2.3B. :1s REECO implements by:	REECO	MC-03.0	1	C C	(verified) ~6.1.6.2.6
	4.2.3B. :2s REECO implements by:	REECO	MC-03.0	1	C C	(verified) ~6.1.6.2.6
	4.2.3B. :3s1. REECO implements by:	REECO	MC-03.0	1	C C	(verified) ~6.1.6.2.6
	4.2.3B. :3s2. REECO implements by:	REECO	MC-03.0	1	C C	(verified) ~6.1.6.2.6
	4.2.3B. :3s3. REECO implements by:	REECO	MC-03.0	1	C C	(verified) ~6.1.6.2.6

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Requirement status	Requirement id	Implementing document owner	document id	Rev & Chg/ Effective	Implementation status	requirement
	7.2.1 :1s				C	(verified)
	REECO implements by:	REECO	MC-03.0	1	C	~6.0
	7.2.1 :2sA.				C	(verified)
	REECO implements by:	REECO	MC-03.0	1	C	~5.0
					C	~6.0
	7.2.1 :2sB.				C	(verified)
	REECO implements by:	REECO	MC-03.0	1	C	~6.0
	7.2.1 :2sC.				C	(verified)
	REECO implements by:	REECO	MC-03.0	1	C	~6.0
	7.2.1 :2sD.1.				C	(verified)
	REECO implements by:	REECO	MC-03.0	1	C	~6.1.6.2.6
					C	~6.1.11
	7.2.1 :2sD.2.				C	(verified)
	REECO implements by:	REECO	MC-03.0	1	C	~6.1.1
	7.2.1 :2sD.3.				C	(verified)
	REECO implements by:	REECO	MC-03.2	1	C	~6.0
	7.2.1 :2sD.4.				C	(verified)
	REECO implements by:	REECO	MC-03.2.1	0	C	~6.6
	7.2.1 :2sD.5.				C	(verified)
	REECO implements by:	REECO	MC-03.0	1	C	~6.1.6.2.7.2
			MC-03.3	0	C	~6.2.2.2
	7.2.1 :2sD.6.				C	(verified)
	REECO implements by:	REECO	MC-03.0	1	C	~6.10
						(IBR) REECO MC-11.2 6.1
	7.2.1 :2sD.7.				C	(verified)
	REECO implements by:	REECO	MC-03.0	1	C	~6.10

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RTND
Oct 8:19 AM

Requirements T ility Network
Requirement ix Report
Document owner, id: OURN, DOE/RW-0333P QARD
Revision & Change: 0

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Requirement status	Requirement id	Implementing document owner	document id	Rev & Chg/ Effective	Implementation status	requirement
						(IBR) REECO MC-11.2 6.1
	7.2.1 :2sD.8. REECO implements by:	REECO	MC-03.2.1	0	C C	(verified) ~6.0
	7.2.1 :2sD.9. REECO implements by:	REECO	MC-03.0	1	C C	(verified) ~6.1.6.2.7.3
	7.2.1 :2sE. REECO implements by:	REECO	MC-03.0	1	C	(verified) ~6.1.7.3
	7.2.1 :2sF. REECO implements by:	REECO	MC-03.0	1	C C	(verified) ~6.1.6.2.6
	7.2.1 :2sG. REECO implements by:	REECO	MC-03.0	1	C C	(verified) ~5.4
	7.2.2A. REECO implements by:	REECO	MC-03.2	1	C C	(verified) ~6.0
	7.2.2B. :1s REECO implements by:	REECO	MC-03.2	1	C C	(verified) ~6.1.5
	7.2.2B. :2s REECO implements by:	REECO	MC-03.2	1	C C	(verified) ~6.1.5.2
	7.2.2C.1. REECO implements by:	REECO	MC-03.2	1	C C	(verified) ~6.2.1 (IBR) REECO MC-03.2.1 6.1.3
	7.2.2C.2. REECO implements by:	REECO	MC-03.2	1	C C	(verified) ~6.2.1 (IBR) REECO MC-03.2.1 6.1.3
	7.2.2C.3. REECO implements by:	REECO	MC-03.2	1	C C	(verified) ~6.2.1 (IBR) REECO MC-03.2.1 6.1.3

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Requirement status	Requirement id	Implementing document owner	document id	Rev & Chg/ Effective	Implementation status	requirement
	7.2.2D.				C	(verified)
	REECO implements by:	REECO	MC-03.2	1	C	~6.4.1
			MC-03.2.1	0	C	~6.2.4
	7.2.3A. :1s				C	(verified)
	REECO implements by:	REECO	MC-03.2	1	C	~6.3.2
	7.2.3A. :2s				C	(verified)
	REECO implements by:	REECO	MC-03.2	1	C	~6.1.5
	7.2.3A. :3s1.				C	(verified)
	REECO implements by:	REECO	MC-03.2	1	C	~6.2.1.1
	7.2.3A. :3s2.				C	(verified)
	REECO implements by:	REECO	MC-03.2	1	C	~6.2.1.3
	7.2.3A. :3s3.				C	(verified)
	REECO implements by:	REECO	MC-03.2	1	C	~6.2.1.2
	7.2.3A. :3s4.				C	(verified)
	REECO implements by:	REECO	MC-03.2	1	C	~6.2.1.1
	7.2.3A. :3s5.				C	(verified)
	REECO implements by:	REECO	MC-03.2	1	C	~6.2.1.2
	7.2.3A. :3s6.				C	(verified)
	REECO implements by:	REECO	MC-03.2	1	C	~6.2.1.5
	7.2.3A. :3s7.				C	(verified)
	REECO implements by:	REECO	MC-03.2	1	C	~6.2.1.5
	7.2.3B.				C	(verified)
	REECO implements by:	REECO	MC-03.2	1	C	~6.3.5

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RTNDF
Oct : 8:19 AM

Requirements T lity Network
Requirement .x Report
Document owner, id: OQ., DOE/RW-0333P QARD
Revision & Change: 0

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Requirement status	Requirement id	Implementing document owner	document id	Rev & Chg/ Effective	Implementation status	requirement
	7.2.3B. REECO implements by:	REECO	MC-03.2.1	0	C C	(verified) ~6.4.2
	7.2.3C. REECO implements by:	REECO	MC-03.2.1	0	C C C C	(verified) ~6.2 ~6.3 ~6.4
	7.2.3D. REECO implements by:	REECO	MC-03.0	1	C C C	(verified) ~6.6 (IBR) REECO MC-04.2 5.0 (IBR) REECO MC-04.2 6.0
	7.2.4A. :1s REECO implements by:	REECO	MC-03.0	1	C	(verified) ~6.5
	7.2.4A. :2s1. REECO implements by:	REECO	MC-03.0	1	C	(verified) ~6.5.1
	7.2.4A. :2s2. REECO implements by:	REECO	MC-03.0	1	C	(verified) ~6.5.2
	7.2.4A. :2s3. REECO implements by:	REECO	MC-03.0	1	C	(verified) ~6.5.3
	7.2.4A. :2s4. REECO implements by:	REECO	MC-03.0	1	C	(verified) ~6.5.4
	7.2.4A. :2s5. REECO implements by:	REECO	MC-03.0	1	C	(verified) ~6.5.5
	7.2.4A. :2s6. REECO implements by:	REECO	MC-03.0	1	C	(verified) ~6.5.6
	7.2.4B. REECO implements by:	REECO	MC-03.2.1	0	C C	(verified) ~6.6

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Requirement status	Requirement id	Implementing document owner	document id	Rev & Chg/ Effective	Implementation status	requirement
	7.2.4B. REECO implements by:	REECO	MC-03.3	0	C C	(verified) ~6.1
	7.2.4C. :1s REECO implements by:	REECO	MC-03.3	0	C C	(verified) ~6.2.2
	7.2.4C. :2s REECO implements by:	REECO	MC-03.2.1	0	C C C	(verified) ~6.6.1 ~6.6.3
	7.2.5A. REECO implements by:	REECO	MC-03.0 MC-06.2	1 0	C C C	(verified) ~6.1.6.2.7.3 ~6.1
	7.2.5B. :1s REECO implements by:	REECO	MC-03.0 MC-06.2	1 0	C C	(verified) ~6.1.6.2.7.3 ~6.2
	7.2.5B. :2s REECO implements by:	REECO	MC-06.2	0	C	(verified) ~6.4
	7.2.6A.1. REECO implements by:	REECO	MC-03.2.1	0	C C	(verified) ~6.1.1 ~6.1.2
	7.2.6A.2. REECO implements by:	REECO	MC-03.2.1	0	C C	(verified) ~6.1.1
	7.2.6A.3. REECO implements by:	REECO	MC-03.2.1	0	C C	(verified) ~6.1.1
	7.2.6A.4. REECO implements by:	REECO	MC-03.2.1	0	C C	(verified) ~6.1.1
	7.2.6A.5. REECO implements by:	REECO	MC-04.2	0	C C	(verified) ~6.2.2.4

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Requirement status	Requirement id	Implementing document owner	document id	Rev & Chg/ Effective	Implementation status	requirement
	7.2.6B. REECO implements by:	REECO	MC-03.0	1	C C C	(verified) ~4.9 ~4.24
	7.2.6C. :1s REECO implements by:	REECO	MC-03.0	1	C C C	(verified) ~4.9 ~4.24
	7.2.6C. :2s REECO implements by:	REECO	MC-03.0	1	C C C	(verified) ~4.9 ~4.24
	7.2.7A. REECO implements by:	REECO	MC-03.0	1	C C C	(verified) ~4.9 ~4.24
	7.2.7B. :1s REECO implements by:	REECO	MC-03.0	1	C C C	(verified) ~4.9 ~4.24
	7.2.7B. :2s REECO implements by:	REECO	MC-03.0	1	C C C	(verified) ~4.9 ~4.24
	7.2.7C. REECO implements by:	REECO	MC-03.0	1	C C C	(verified) ~4.9 ~4.24
	7.2.7D. REECO implements by:	REECO	MC-03.0	1	C C C	(verified) ~4.9 ~4.24
	7.2.7E. REECO implements by:	REECO	MC-03.0	1	C C C	(verified) ~4.9 ~4.24

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Requirement status	Requirement id	Implementing document owner	document id	Rev & Chg/ Effective	Implementation status	requirement
	7.2.7F. :1s REECO implements by:	REECO	MC-03.0	1	C C C	(verified) ~4.9 ~4.24
	7.2.7F. :2s REECO implements by:	REECO	MC-03.0	1	C C C	(verified) ~4.9 ~4.24
	7.2.8 :1sthru2s REECO implements by:	REECO	MC-03.0	1	C C	(verified) ~4.33
	7.2.8A. REECO implements by:	REECO	MC-03.3	0	C C	(verified) ~6.2.2.2
	7.2.8B. REECO implements by:	REECO	MC-03.3	0	C C C	(verified) ~6.3.5.1 ~6.3.5.2
	7.2.8C. REECO implements by:	REECO	MC-03.3	0	C C	(verified) ~6.3.1
	7.2.9A. REECO implements by:	REECO	MC-04.2	0	C C	(verified) ~6.3.3.3
	7.2.9B. REECO implements by:	REECO	MC-04.2	0	C C	(verified) ~6.0
	7.2.9C. REECO implements by:	REECO	MC-04.2	0	C C	(verified) ~6.2.2
	7.2.9D. REECO implements by:	REECO	MC-04.2	0	C C	(verified) ~6.2
	7.2.9E. REECO implements by:	REECO	MC-04.2	0	C C	(verified) ~6.2.2.4

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Requirement status	Requirement id	Implementing document owner	document id	Rev & Chg/ Effective	Implementation status	requirement
	7.2.10 REECO implements by:	REECO	MC-03.0	1	C	(verified) ~6.1.6.2.3.2
	7.2.11 REECO implements by:	REECO	MC-03.0	1	C	(verified) ~6.10 (IBR) REECO MC-11.2 6.1
	7.2.11A. REECO implements by:	REECO	MC-03.0	1	C	(verified) ~6.10.1
	7.2.11B. :1s REECO implements by:	REECO	MC-03.0	1	C	(verified) ~6.10.2
	7.2.11B. :2s1. REECO implements by:	REECO	MC-03.0	1	C	(verified) ~6.10.2.1
	7.2.11B. :2s2. REECO implements by:	REECO	MC-03.0	1	C	(verified) ~6.10.2.2
	7.2.11B. :2s3. REECO implements by:	REECO	MC-03.0	1	C	(verified) ~6.10.2.3
	7.2.11B. :2s4. REECO implements by:	REECO	MC-03.0	1	C	(verified) ~6.10.2.4
	7.2.11C. REECO implements by:	REECO	MC-03.0	1	C	(verified) ~6.10.3
	7.2.11D. REECO implements by:	REECO	MC-03.0	1	C	(verified) ~6.10.4
	7.2.12A. :1s REECO implements by:	REECO	MC-03.0	1	C	(verified) ~6.9.1

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Requirement status	Requirement id	Implementing document owner	document id	Rev & Chg/ Effective	Implementation status	requirement
	7.2.12A. :2s				C	(verified)
	REECO implements by:	REECO	MC-03.0	1	C	~6.9.1
	7.2.12B.				C	(verified)
	REECO implements by:	REECO	MC-03.0	1	C	~6.9.2
	7.2.12C.				C	(verified)
	REECO implements by:	REECO	MC-03.0	1	C	~6.9.3
	7.2.12D.1.				C	(verified)
	REECO implements by:	REECO	MC-03.0	1	C	~6.9.4.1
	7.2.12D.2.				C	(verified)
	REECO implements by:	REECO	MC-03.0	1	C	~6.9.4.2
	7.2.12D.3.				C	(verified)
	REECO implements by:	REECO	MC-03.0	1	C	~6.9.4.3
	7.2.12D.4.				C	(verified)
	REECO implements by:	REECO	MC-03.0	1	C	~6.9.4.4

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