

only copy

**U.S. DEPARTMENT OF ENERGY
OFFICE OF CIVILIAN RADIOACTIVE WASTE MANAGEMENT**

**PRESENTATION TO
THE NUCLEAR WASTE TECHNICAL REVIEW BOARD**

**SUBJECT: QUALITY ASSURANCE
OVERVIEW OF THE
EXPLORATORY STUDIES
FACILITY DESIGN PROCESS**

PRESENTER: M. J. REGENDA

**PRESENTER'S TITLE
AND ORGANIZATION: MANAGER, QUALITY ASSURANCE, YMP
RAYTHEON SERVICES NEVADA**

**PRESENTER'S
TELEPHONE NUMBER: (702) 794-7226**

MARCH 26-27, 1991

RAYTHEON SERVICES NEVADA

QUALITY ASSURANCE OVERVIEW

OF THE

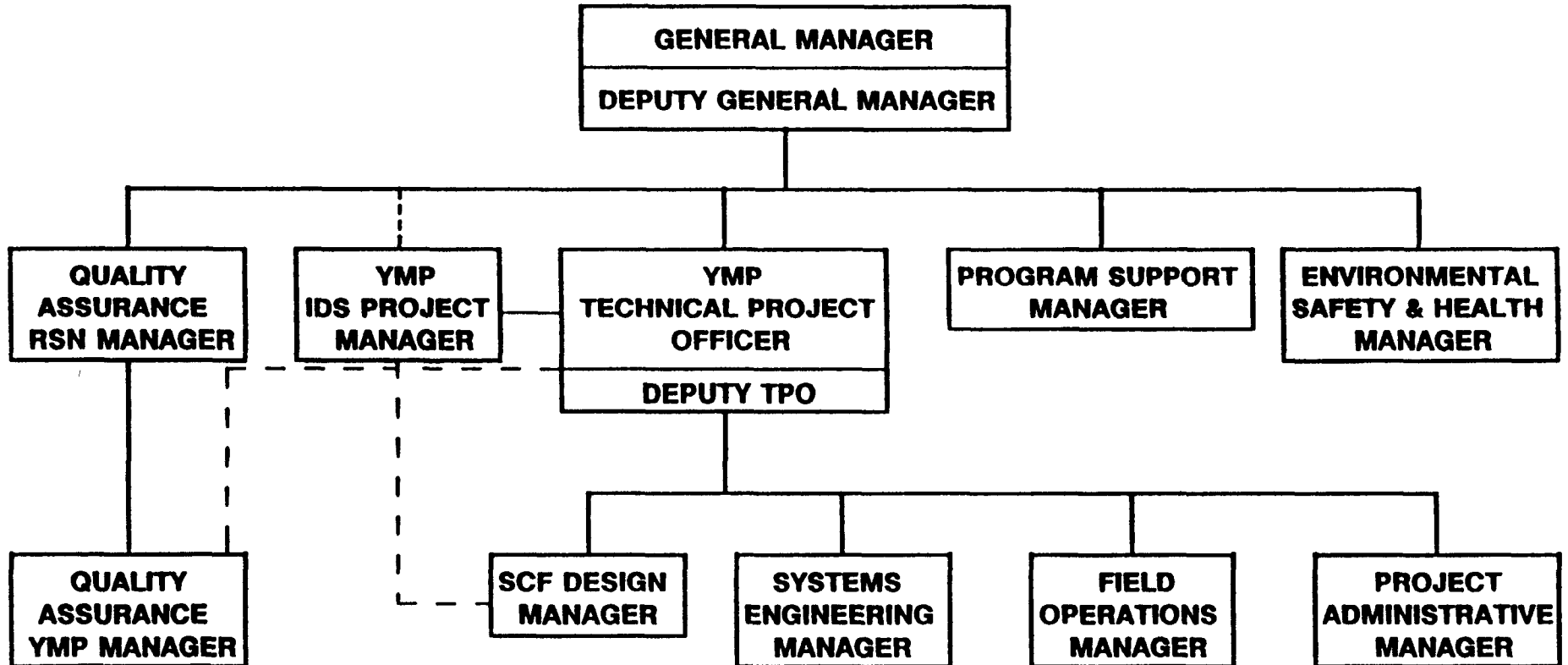
EXPLORATORY STUDIES FACILITY DESIGN PROCESS

AGENDA

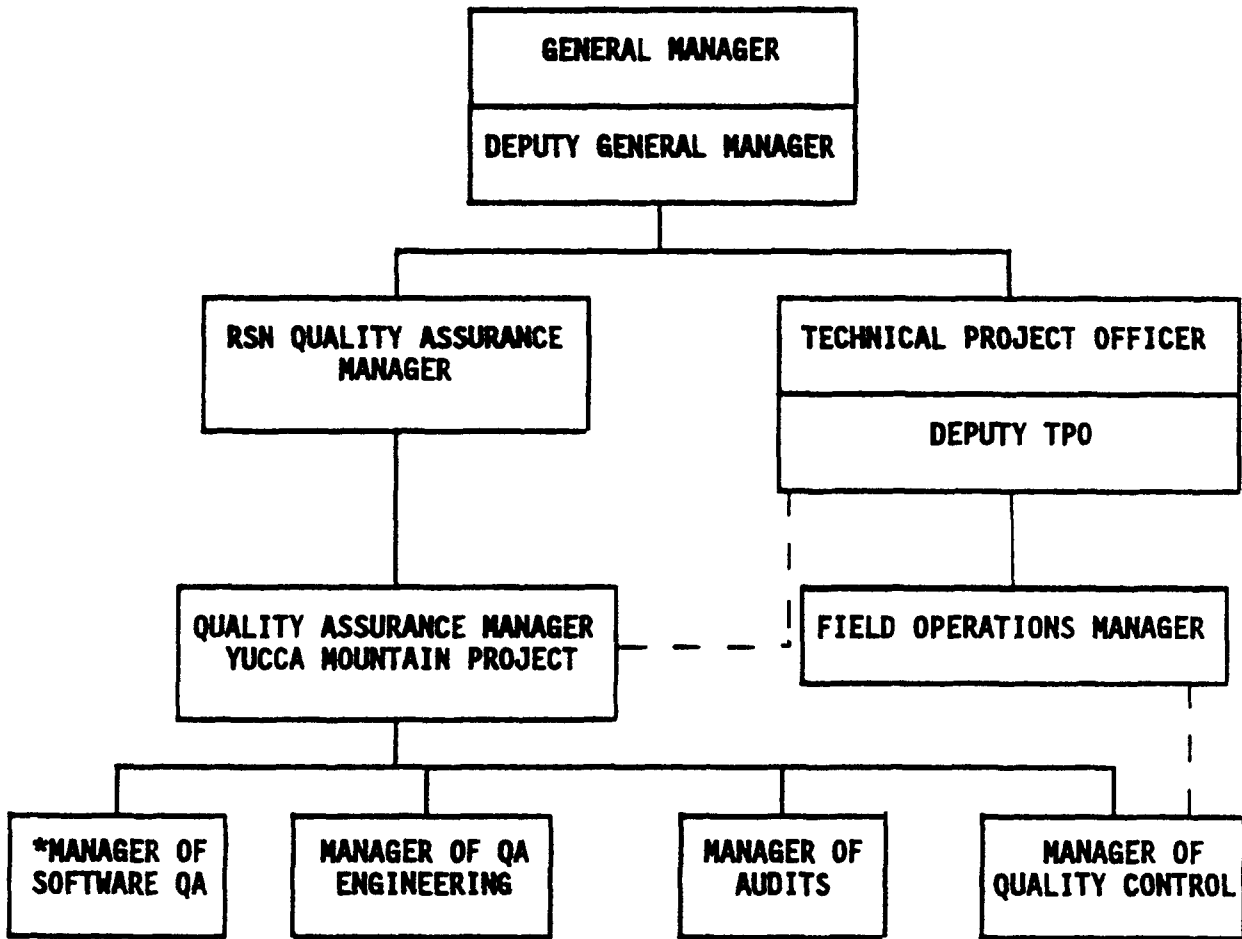
- 1. ORGANIZATION CHARTS**
- 2. CRITERIA FOR QA**
- 3. QA DESIGN REVIEW**
 - DESIGN ANALYSES**
 - SPECIFICATIONS**
 - DRAWINGS**
- 4. QA COMPUTER SOFTWARE REVIEW**
- 5. AUDITS/SURVEILLANCES**

RAYTHEON SERVICES NEVADA

YUCCA MOUNTAIN SITE CHARACTERIZATION PROJECT



**RAYTHEON SERVICES NEVADA
QUALITY ASSURANCE ORGANIZATION**

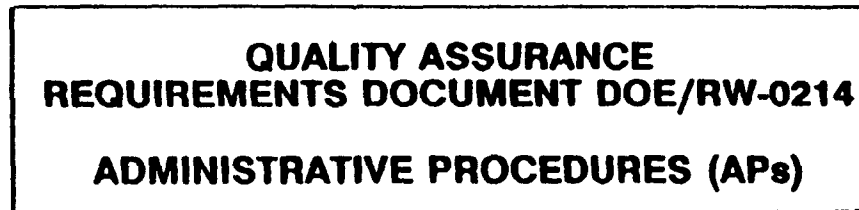


***Manager of Software Quality Assurance works for Raytheon Missile Systems Division and provides support to RSN for the IDS Project.**

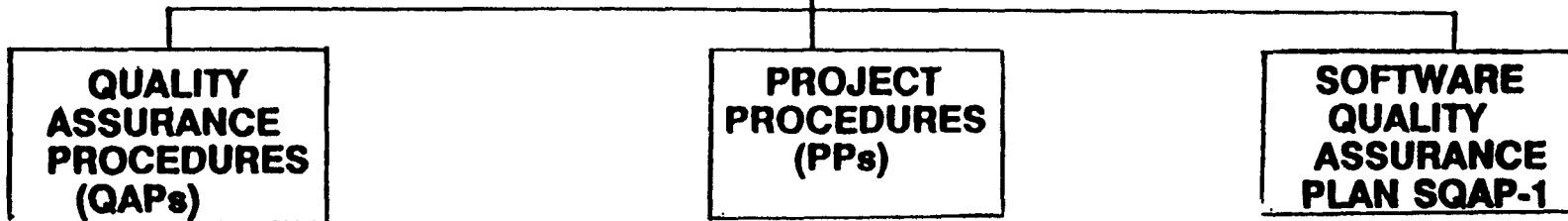
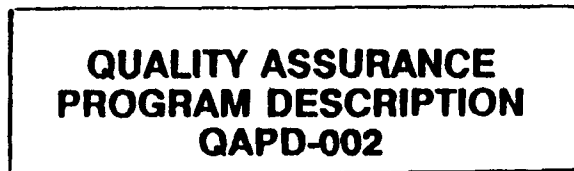
RAYTHEON SERVICES NEVADA

CRITERIA FOR QUALITY ASSURANCE

DOE/OCRWM



RAYTHEON SERVICES NEVADA



QUALITY ASSURANCE DESIGN REVIEW

- 1. DESIGN ANALYSES AND STUDIES**
- 2. SPECIFICATIONS**
- 3. DRAWINGS**

QUALITY ASSURANCE DESIGN REVIEW

DESIGN ANALYSES AND STUDIES

REQUIREMENTS

**PP-03-03 - ANALYSES
AND
STUDIES**

QA VERIFICATION

**QAP-3.1(Y) QA REVIEW OF
DESIGN CRITERIA
DOCUMENTS**

QUALITY ASSURANCE DESIGN REVIEW SPECIFICATIONS

REQUIREMENT

**PP-03-07 - DEVELOPMENT
AND
SPECIFICATIONS**

QA VERIFICATION

**QAP-3.1(Y) QA REVIEW OF
DESIGN CRITERIA
DOCUMENTS**

QUALITY ASSURANCE DESIGN REVIEW

DRAWINGS

REQUIREMENT

**PP-03-12 - PREPARATION
AND
CONTROL
OF
DRAWINGS**

QA VERIFICATION

**QAP-3.1(Y) QA REVIEW OF
DESIGN CRITERIA
DOCUMENTS**

QUALITY ASSURANCE COMPUTER SOFTWARE REVIEW

- **SOFTWARE REQUIREMENTS PACKAGE**
- **SOFTWARE VERIFICATION AND VALIDATION PLAN**
- **HARDWARE CERTIFICATION**
- **SOFTWARE CERTIFICATION**
- **USE OF SOFTWARE**

QUALITY ASSURANCE COMPUTER SOFTWARE REVIEW

REQUIREMENTS

QA VERIFICATION

PP-19-01	COMPUTER HARDWARE AND SOFTWARE CONFIGURATION MANAGEMENT	QAP-19.1(Y)	COMPUTER SOFTWARE
PP-19-02	SOFTWARE AUTHORIZATION AND CLASSIFICATION		
PP-19-03	COMPUTER HARDWARE AND SOFTWARE PROCUREMENT		
PP-19-04	COMPUTER HARDWARE AND SOFTWARE CERTIFICATION		
PP-19-05	CERTIFIED REVIEW OPERATIONS		
PP-19-06	DOCUMENTATION REVIEW AND SOFTWARE MAINTENANCE		

AUDITS - SURVEILLANCES

**RSN PREPARES A FORMAL AUDIT AND
SURVEILLANCE SCHEDULE TO VERIFY COMPLIANCE
TO THE RSN QUALITY ASSURANCE PROGRAM**