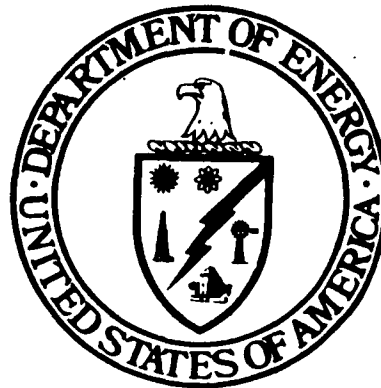


**U. S. DEPARTMENT OF ENERGY
FIELD OFFICE SAVANNAH RIVER**

**OVERVIEW OF QUALITY ASSURANCE PROGRAMS
to the
NUCLEAR WASTE TECHNICAL REVIEW BOARD
ENGINEERED BARRIER SYSTEMS PANEL**



**WILLIAM D. PEARSON
CHIEF, WASTE COMPLIANCE AND QUALITY ASSURANCE BRANCH
HIGH LEVEL WASTE DIVISION**

FEBRUARY 10, 1992

OFFICE OF CIVILIAN RADIOACTIVE
WASTE MANAGEMENT (RW)

Waste Acceptance
Specifications

RW-0214
QA Requirements

WASTE FORM PRODUCERS

WCP - Waste Form
Compliance Plan

Quality Assurance
Program Description

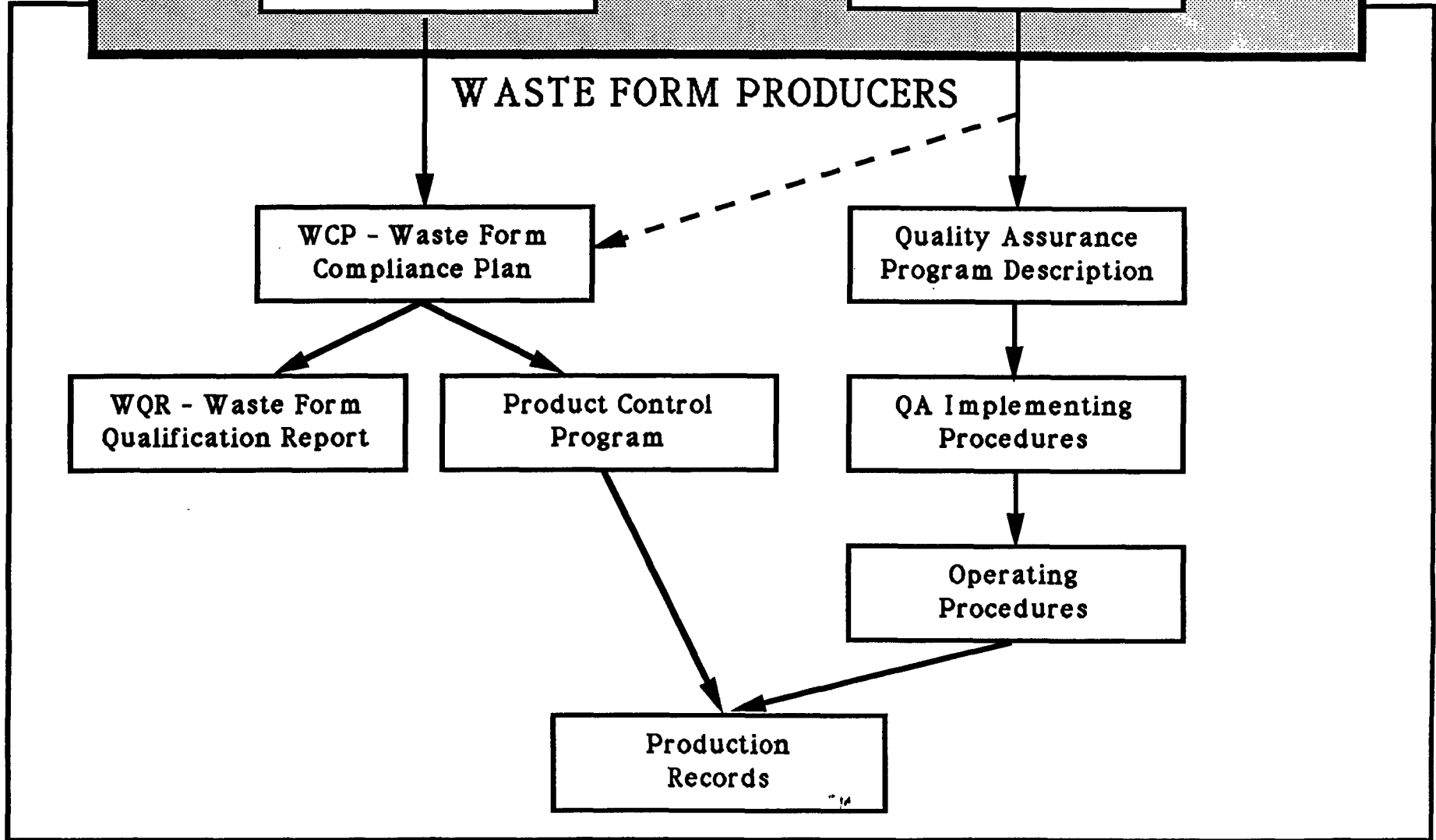
WQR - Waste Form
Qualification Report

Product Control
Program

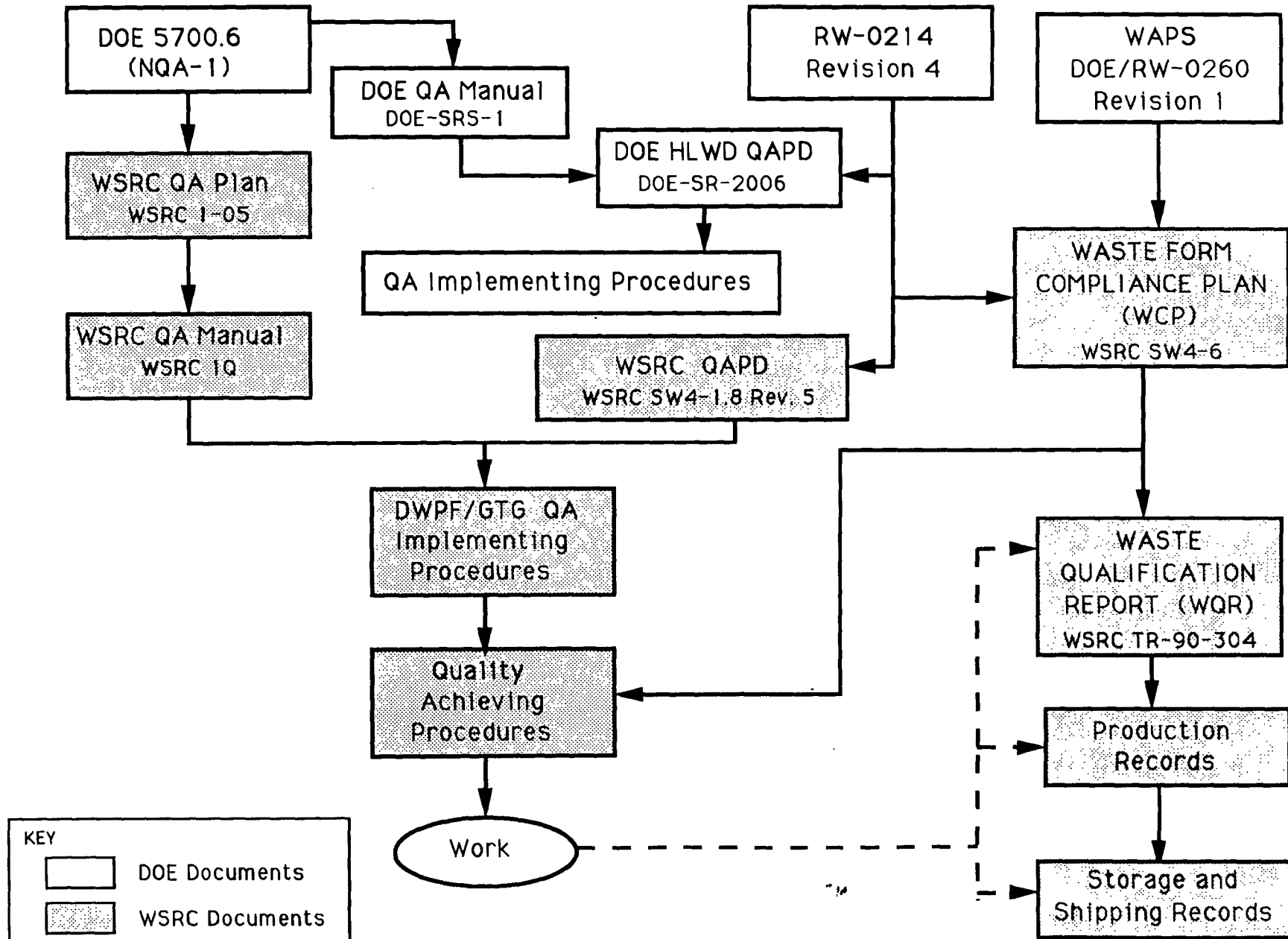
QA Implementing
Procedures

Operating
Procedures

Production
Records



WASTE FORM PRODUCER QA PROGRAM DOCUMENTS



BASIC SUMMARY OF QA REQUIREMENTS

1. **Organization**
 2. **QA Program**
 3. **Design Control**
 4. **Procurement Document Control**
 5. **Instructions, Procedures, & Drawings**
 6. **Document Control**
 7. **Control of Purchased Items & Services**
 8. **Identification and Control of Items**
 9. **Control of Processes**
 10. **Inspection**
 11. **Test Control**
 12. **Control of M&TE**
 13. **Handling, Storage & Shipping**
 14. **Inspection, Test & Operating Status**
 15. **Control of Nonconformances**
 16. **Corrective Action**
 17. **QA Records**
 18. **Evaluations**
 19. **Quality Improvement**
- Also Computer Software**

QUALITY ASSURANCE REQUIREMENTS **DWPF PRODUCT QUALIFICATION**

Per the WAPS:

"The DOE/RW-0214 Quality Assurance Program shall be applied to All Testing and Analysis Activities that Provide Information to be Included in the WQR"

These Activities are Conducted by the Following Organizations:

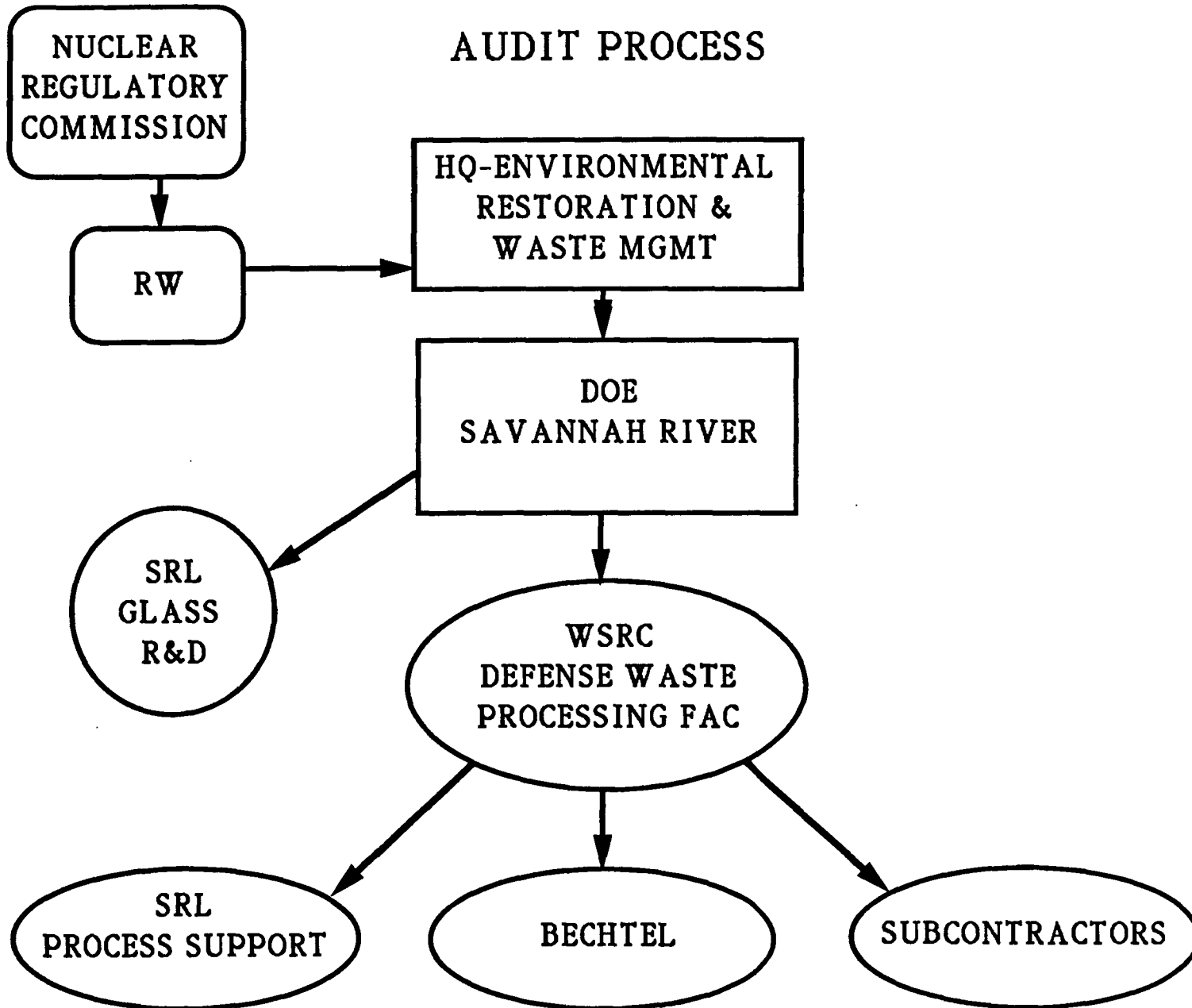
- SRL-GTG (SRL Glass Technology Group)**
- DWPF Start-up Organization**
- DWPF Analytical Services**
- Suppliers**
- QA Oversight (Cognizant Quality Functions)**

QA FOR PRODUCTION OPERATIONS
RW-0214

Applies to Those Things which affect Waste Form Quality:

- Vitrification Cold Tests**
- Waste Form Production**

AUDIT PROCESS



QA PROGRAM STATUS

DOE-SR

Quality Assurance Program Descriptions in Place and Revised to RW-0214, Rev. 4

50 Implementing Procedures in Place

Surveillances/Audits being Performed of WSRC-DWPF, WSRC-SRL

NRC, RW, State of Nevada have Participated as Observers in EM Audits of DOE-SR

SRL (Glass Technology Group)

Programs are in Place and Implemented to RW-0214, Rev. 4

Scheduled Reviews by DOE-SR are in Progress

QA PROGRAM STATUS

WSRC-DWPF - Production Operations

It is Estimated that RW-0214 Program is now 90% in Place. (Site QA Program Currently Being Followed.) Committed to be in Place by 3/31/92, Before Vitrification Tests

Assessments now in Progress by DWPF Quality Department. Due to be Completed by 9/30/92

Reviews by DOE-SR are being made as Scheduled in the Evaluation and Assessment Plan