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4.0 RESPONSIBILITIES DIRECTOR, OCRWM The Director, OCRWM, is responsible for: Directing management and administration policy for PROGRAM 4.1.1 quality evaluation and status reporting prescribed by this procedure; Providing timely guidance and feedback to OCRVM Associate 4.1.2 Directors, appropriate Project Managers, and the Director, OQA, with regard to the OCRWM Quality Assurance (QA) program status and overall PROGRAM quality status; and Approving quarterly Quality Status Summaries (QSS). 4.1.3 ASSOCIATE DIRECTORS, OCRMM The Associate Directors, OCRVM, are responsible for: Participating in PROGRAM quality-effectiveness reviews; and 4.2.1

> Taking timely and effective action to correct and prevent 4.2.2 deficient conditions and quality-related problems.

4.3 DIRECTOR, OOA

The Director, OQA, is responsible for:

- 4.3.1 Preparing and maintaining this procedure;
- Collecting quality-related data and information for analysis; 4.3.2
- Defining trend-analysis methods and documenting the applications 4.3.3 used to evaluate PROGRAM quality and to perform analyses of data trends;
- Preparing and issuing status reports prescribed in Sections 6.4 4.3.4 through 6.7 of this procedure;

| PROCEDURE QAAP 2.9 0 3 0 16 4.3.5 Implementing appropriate root-cause definition techniques to be applied to identified problem areas in the PROGRAM; and 4.3.6 Maintaining and controlling QA records generated as a result of compliance with this procedure. 5.0 GENERAL 5.1 Trend analysis of data compilations pertinent to activities affecting quality shall be used to assess the adequacy and effectiveness of the OCNAM QA program and PROGRAM quality. The techniques applied shall provide a basis for problem definition and identification of root causes, so that corrective actions are adequate and preventive actions are maintainable Comparisons with data and analyses from previous, continuous periods shall be a basis for projections and shall be used to establish objectives for correcting or improving conditions affecting quality. 5.2 The Director, OQA, shall prepare monthly reports (lists) and quarterl Quality Status Summaries (QSS) that discuss the OCNAM QA program an PROGRAM quality (sections 6.4 and 6.5). 5.3 As a minimum, the Director, OCNAM; the Director, OQA; and Associat Directors will convene a PROGRAM quality effectiveness review of each QS draft. An executive summary reflecting the management assessment or PROGRAM quality shall be incorporated in the QSS. The quarterly PROGRAM quality-effectiveness review may be held in conjunction with any othe OCNAM meeting, or it may be convened separately. 5.4 The QSS shall be used by cognizant PROGRAM management, from the highes to the Lowest affected management tice, to further assess qualit effectiveness within PROGRAM analyzement tice, and to improv quality. | PROCEDURE QAAP 2.9 0 3 0 16 4.3.5 Implementing appropriate root-cause definition techniques to h applied to identified problem areas in the FROGRAM; and 4.3.6 Maintaining and controlling QA records generated as a result of compliance with this procedure. 5.0 GENERAL 5.1 Trend analysis of data compilations pertinent to activities affecting quality shall be used to assess the adequacy and effectiveness of th OCNM QA program and FROGRAM quality. The techniques applied shall provide a basis for problem definition and identification of root causes, so the corrective actions are adequate and preventive actions are maintainable Comparisons with data and analyses from previous, continuous periods shall be a basis for projections and shall be used to establish objectives for correcting or improving conditions affecting quality. 5.2 The Director, OQA, shall prepare monthly reports (lists) and quarterl Quality Status Summaries (QSS) that discuss the OCNM QA program ar FROGRAM quality (sections 6.4 and 6.5). 5.3 As a minimum, the Director, OCNMM; the Director, OQA; and Associat Directors will convere a FROGRAM quality effectiveness review of each QC draft. An executive summary reflecting the management assessment of FROGRAM quality shall be incorporated in the QSS. The quarterly FROGRAM quality effectiveness review of each QC draft. An executive summary reflecting the management assessment of FROGRAM quality shall be used by cognizant FROGRAM management, from the highes to the lowest affected management tier, to further assess qualit effectiveness within FROGRAM organizations, to take actions necessary to correct identified problems and preclude recurrence, and to improv quality. 6.0 <u>FROCEDURE</u> 6.1 The Director, OQA, shall request that the FROGRAM participants periodicall provide information concerning FROGRAM quality for which they are responded to the formation concerning FROGRAM quality for which they are responded of the formation concern | State of the state | OCRWM QA | Procedure No.: | Revision: | Page: | | |
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| provide information concerning PROGRAM quality for which they are respon | provide information concerning PROGRAM quality for which they are respor | 6.0 <u>PROCI</u> | EDURE | | | | | |
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- 6.2 Analysis of OCRWM QA program data, such as Corrective Action Reports (CARs), Deficiency Reports (DRs), and Stop Work Order/Request (SWO/R), shall occur at a frequency sufficient to ensure that conditions adverse to quality are identified, and corrected or prevented as early as practicable. Similar analyzed data and information shall be obtained from PROGRAM participants for evaluation and reporting purposes. The trendanalysis approach shall be defined and documented by the Director, OQA. Guidance for trend analysis is provided in Attachment I.
- 6.3 Where there are trend indications that a deficiency or failure in PROGRAM quality or in the OCRVM QA program either exists or appears imminent, immediate corrective action shall be initiated as required by QAAP 16.1, "Corrective Action."
- 6.4 A monthly report on all DRs, CARs, and SWO/Rs shall be prepared by the Director, OQA. The monthly report shall list new areas requiring corrective action and overdue corrective-action responses. The report shall be distributed to responsible management. Where there are repetitive, significant slips in response dates or where overdue responses are numerous, the Director, OQA, will take further action to evaluate the causes and to correct the condition, as described in QAAP 16.1.
- 6.5 Quarterly, the Director, OQA, shall prepare a draft of the QSS that incorporates results of trend data obtained from PROGRAM participants and OQA. The data and any other information that may influence PROGRAM quality shall be evaluated, and the effect shall be summarized.
- 6.6 OCRAM management (Ref. section 5.3) and appropriate PROGRAM management shall review the draft QSS at the quarterly PROGRAM quality effectiveness review meeting within 6 weeks after the close of the report period. The Director, OQA, shall incorporate an executive summary in the QSS that discusses OCRAM management's assessment of the PROGRAM quality status. An assessment of the effect of significant adverse trends on overall PROGRAM activity shall be provided. The executive summary shall contain management-established objectives to be achieved in PROGRAM quality during the next quarter, along with target dates or milestones for each identified objective. These objectives shall be tracked in the same manner as described in Section 6.4. Attachment II provides guidance for QSS preparation.

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6.7 The Director, OQA, shall finalize the quarterly QSS with the incorporation of the management assessment described in Section 6.6 and shall obtain the OCRVM Director's, approval. The QSS shall be distributed to OCRVM management and Project offices. A standard distribution shall be documented and maintained by OQA.

7.0 QUALITY ASSURANCE RECORDS

7.1 Documentation resulting from compliance with this procedure shall be collected and maintained in accordance with the requirements of QAAP 17.1, "QA Records Management." As a minimum, documentation for application of trend analyses to specific data compilations, and the QSSs are considered QA records.

8.0 ATTACHMENTS

8.1 Attachment I - Guidance for Trend Analysis

| 8.2 | Attachment II | - | Guidance | for | Quarterly | Quality | Status | Summary |
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8.3 Attachment III - Flowchart

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| | | ATTACHMENT I | | | | | |
| | GUID | ANCE FOR TREND ANA | LYSIS | | | | |
| A. This att the fore | achment contains guide going procedure. | lines to be used i | n trend analys: | ls as pre | scri | ibed | . i 1 |
| B. Definiti | ons used in conjunctio | on with these guide | elines are as f | ollows: | - | | |
| a pro | - a measurable (negat duct or process value, ed to establish a benc | away from a relat | ively constant | average, | peri , whi | ich 1 | i maj |
| | <u>tant trend</u> - a measu tigated in a timely ma | | | | | | an |
| that | <u>ficant trend</u> - a sudden indicates the presenc ring immediate attenti | ce of a significa | | | | | |
| 4. <u>Posit</u> | <u>ive trend</u> — an indicat | ion of improvement | •• | | | | |
| should k analysis | alyses should be perfo e presented graphicall and reporting. The ap ented and traceable to | ly where practicab plication of presc | le and summariz ribed trend-ana | ed for p lysis met | urp | ses | 0 |
| The tre | d analysis process is | comprised of the i | following basic | steps: | | | |
| | <u>e:</u> compilation and eva d identification of t | | data, statistic | cal manip | pulat | tion | 0 |
| classifi | <u>o:</u> analysis of trends cation of trends, that ial conclusions; and | , problem definiti is, significant, i | on, and root-ca important, posi | ause dete tive, or | ermin unch | natio nango | on ed |
| correcti | ree: confirmation of ve and preventive action ventive actions (modifi | ons where indicated | | | | | |
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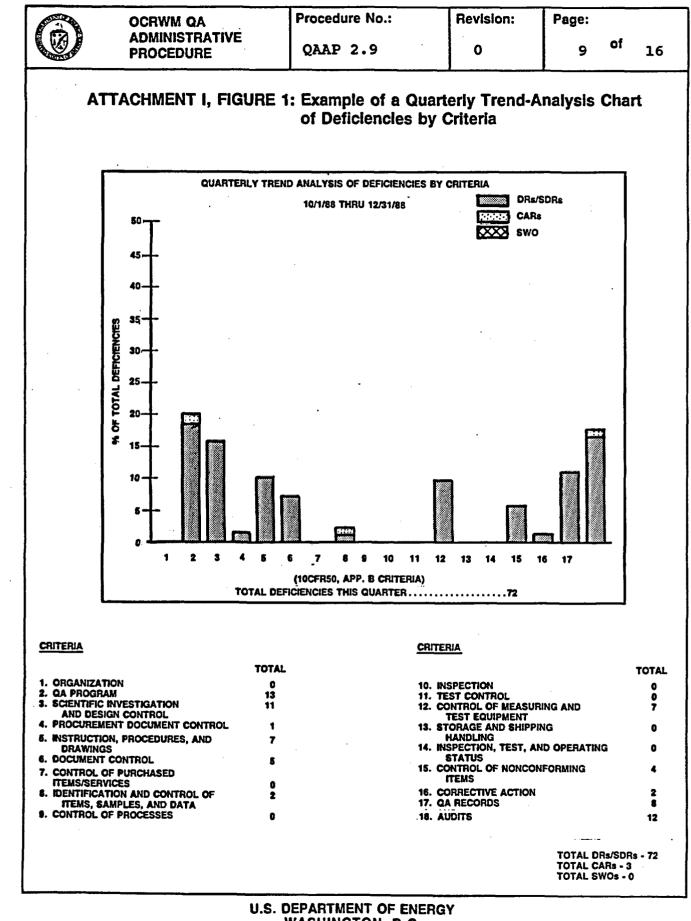
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- 1. Phase One.
 - a) Defining and documenting the basic trend methods to be used and identifying affected data and information to be collected.
 - b) Routinely collecting specified data and information. This material includes pertinent trend results from OCRVM, Project Offices, and other participants;
 - c) Evaluating data and information;
 - d) Classifying deficiencies by criteria that parallel approved PROGRAM QA programs, and charting the information as shown in Figure 1, "Example of a Quarterly Trend-Analysis Chart of Deficiencies by Criteria."
 - e) Categorizing the deficiencies by type, such as CARs and DRs, and charting that information as shown in Figure 3, "Example of a Quarterly Trend-Analysis Chart by Deficiency Type."
 - f) Accomplishing necessary statistical manipulation to identify trends and documenting the trend methods used.
- 2. Phase Two.
 - a) Reviewing trend data and analyzing the effect on PROGRAM quality;
 - b) Charting performance by comparative analysis with previously analyzed and charted data.
 - c) Summarizing conclusions based on information, as shown in Figure 2, "Example of a Quarterly Deficiency Trend-Analysis Chart for Comparison by Criteria," and Figure 4, "Example of a Quarterly Trend-Analysis Chart for Comparison by Deficiency Type."
 - d) Establishing priorities for problem areas to expedite problem definition, root-cause determination, correction, and prevention, as well as improvement.

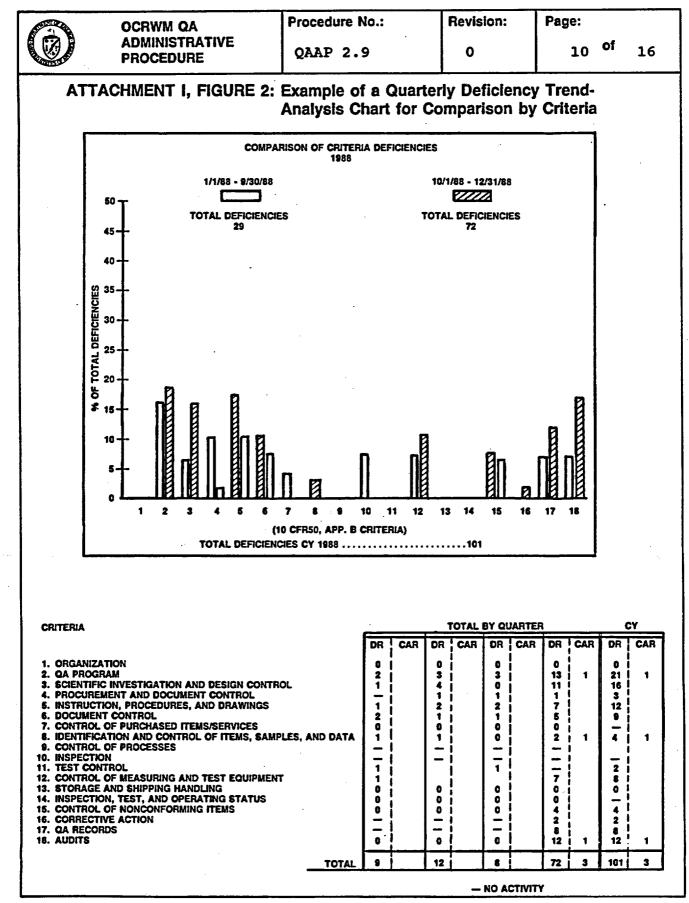
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3. Phase Three.

- a) Monitoring for adverse trends and initiating investigations appropriate to the circumstances to determine validity of the initial conclusions;
- b) Re-reviewing data and analytical methods used and considering application of alternate trend-analysis techniques to further define trend conditions;
- c) Reporting, quarterly, results of trend analyses and identifying whether trend conditions are significant, important, positive, or unchanged;
- d) Identifying or initiating, when appropriate, applicable corrective, preventive, and improvement processes based on the conclusions reached in D.2d), D.3a), and D.3c).
- e) List of Figures
 - 1) Figure 1 Example of a Quarterly Trend-Analysis Chart of Deficiencies by Criteria
 - 2) Figure 2 Example of a Quarterly Deficiency Trend-Analysis Chart for Comparison by Criteria
 - 3) Figure 3 Example of a Quarterly Trend-Analysis Chart by Deficiency Type
 - 4) Figure 4 Example of a Quarterly Trend-Analysis Chart for Comparison by Deficiency Type

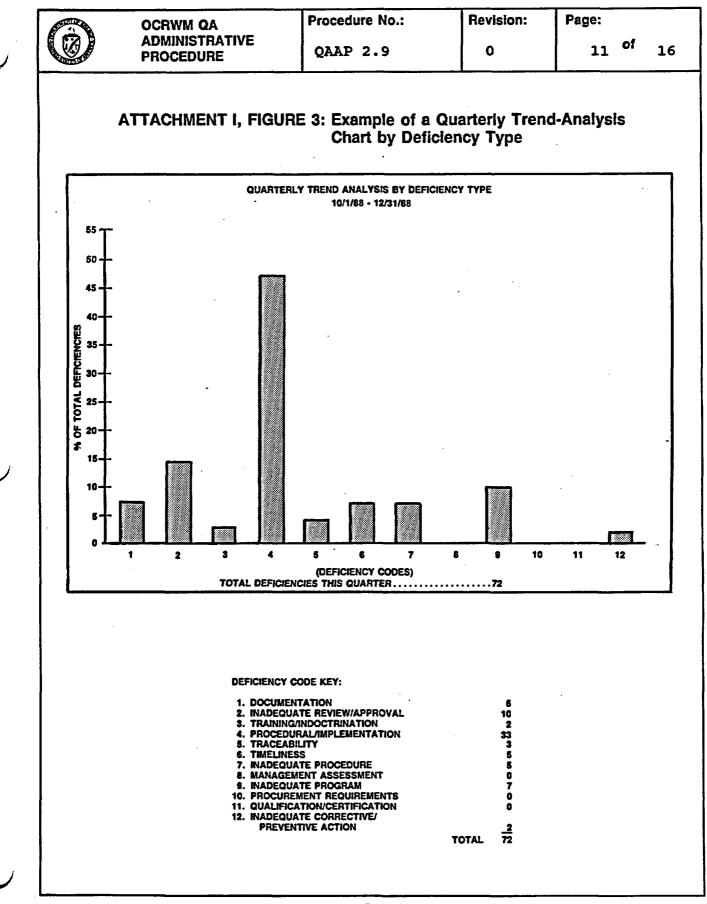


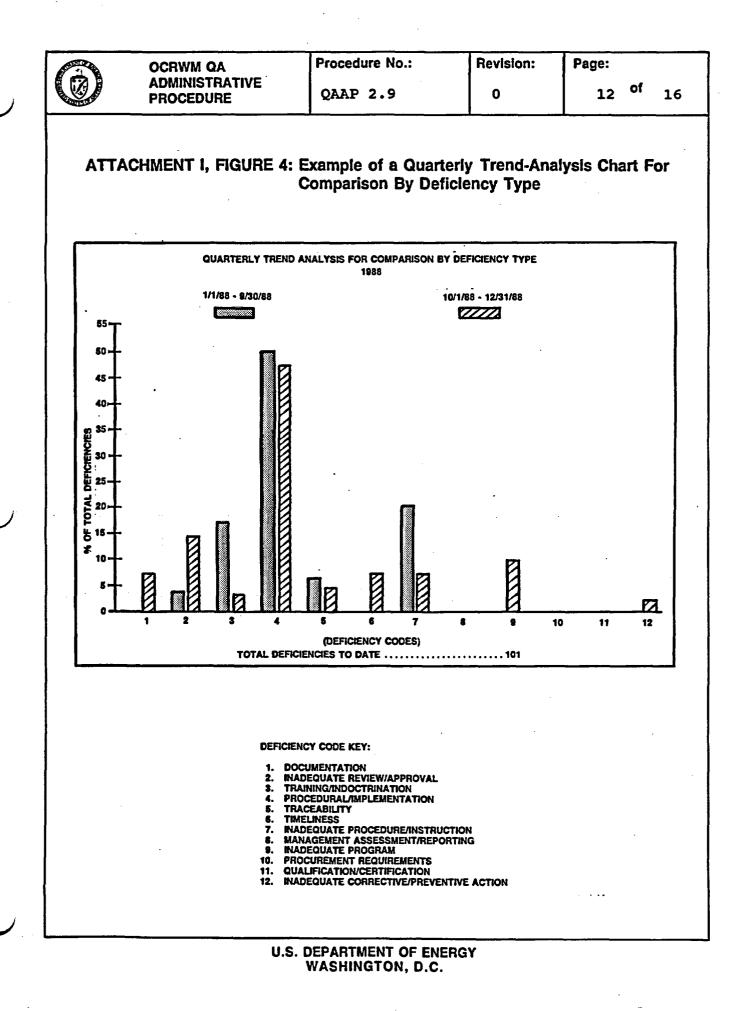
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ATTACHMENT II QUARIERLY QUALITY STATUS SUMMARY CONTENT AND FORMAT OUTLINE

A. REPORT PERIOD BEGINNING STATUS

Part I of the Quality Status Summary (QSS) should state the begin-and-end dates for the period. It should restate the PROGRAM quality status reported in the previous QSS. Significant areas of concern from the previous report period may be emphasized at this time, as appropriate, as well as major quality objectives and the associated target dates or milestones.

B. REPORT PERIOD CURRENT STATUS

Part II of the QSS should summarize the efforts to improve, correct, and prevent problems as follows:

- 1. <u>Major Problems and Significant Trends</u> Explanations of major problems affecting PROGRAM quality and/or significant trends encountered, together with the status of corrective actions. Impacts on major PROGRAM areas should be assessed.
- 2. <u>Important Trends and Impact Assessment</u> An explanation of indicated important trends and potential impacts on the overall PROGRAM.
- 3. <u>Areas of Improvement</u> As indicated by positive trends, a discussion of major improvements in quality, together with a brief descriptions of the improvements, corrective and preventive actions taken, and benefits derived therefrom.
- 4. <u>Quality Objectives Status Report</u> A quantitative report on managementestablished quality objectives that are new, closed, and open. Remarks concerning impacts on the QA program and PROGRAM quality may be included, as appropriate.
- 5. <u>Stop-Work Directive Status Report</u> A quantitative report on any SWDs that are new, closed, and open. Remarks on individual status may be made, as appropriate.
- 6. <u>Corrective Action Reports Status</u> A line-item report on new, closed, and open CARs.
- 7. <u>Total Number of Open Deficiencies</u> Preferably graph or table.

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| 8. | Indoctrination and Trai indoctrination and trainin performance dates, topics the next quarter. | ng program development | t and impleme | ntation, including |
| 9. | <u>Status of OA Audits</u> - A su the report period, and any period (number planned a provided. Slippages or ad staffing requirements and | y impact on projected as internal, externa coelerated schedules | activities f al, and fold should be ad | for the next report low-up) should be |
| 10. | Status of Surveillances - and major areas surveyed. (number planned and areas should also be addressed. | Projected surveillar to be covered) shoul | nces for the | next report period |
| 11. | <u>Licensing and Regulatory</u> positions and regulatory efforts. The status of N as well. | changes that affect | the PROGRAM | quality-assurance |
| 12. | Other Information and Data PROGRAM that may affect q | | | |
| 13. | <u>QA Program Document Statu</u> QA Program Description, Q Procedures and the reason | A Administrative Pro | cedures, and | |
| 2 | REVIEW OF OVERALL QUALITY | PROGRAM EFFECTIVENE | <u>SS</u> | • |
| | Part III of the QSS sh management of conclusions QA Program. The summary m to improve or correct con or recommending a specia revising QA program docum | on the status of the may also include reconn ditions, such as ele al investigation to | e overall ef: mendations vating an ob | fectiveness of the for further action pjective to a CAR. |
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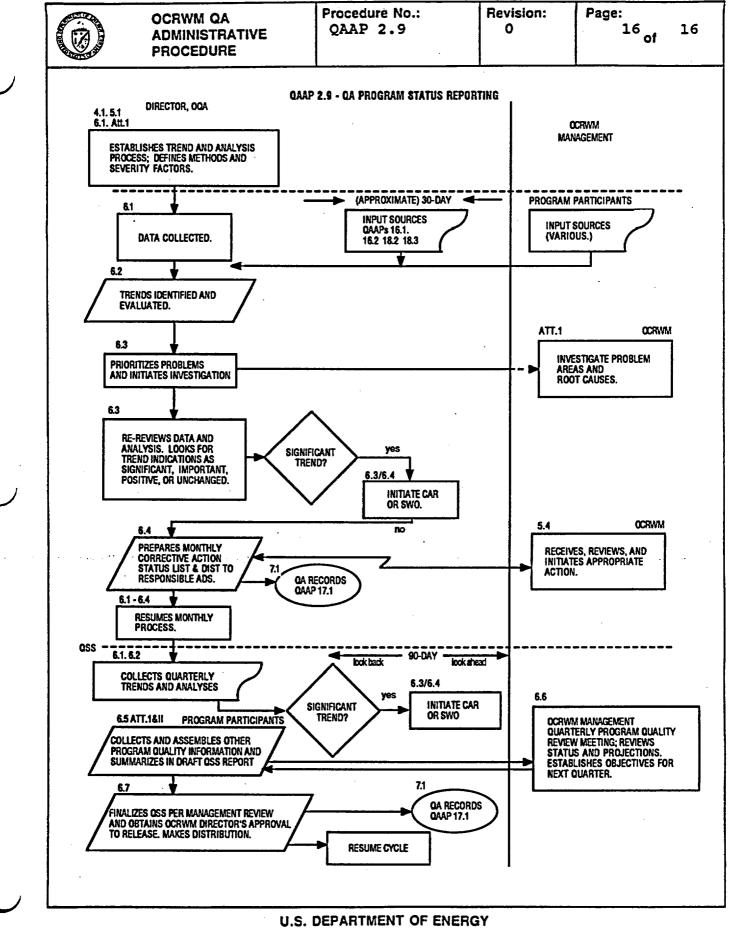
MANAGEMENT OBJECTIVES SUMMARY

D.

E.

Part IV of the QSS should be used to identify the quality objectives established by management for the next report period, as well as long-range objectives and established target dates or milestones. The objectives may be any range of items that PROGRAM Management deems appropriate for achievement of an effective QA program.

<u>SUPPORTING MATERIALS</u> - Part V of the QSS should contain any supporting materials to amplify the summary contents.



WASHINGTON, D.C.

QUALITY ASSURANCE ADMINISTRATIVE PROCEDURES

2.9

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