

(1) The design, development, and demonstration of major advanced technology hardware items;

(2) The design, construction, and operation of a new launch vehicle (and associated ground support) during its research and development phase; and

(3) The construction and operation of one or more aeronautics or space vehicles (and necessary ground support) in order to accomplish a scientific or technical objective. R&D projects are each subelements in the NASA R&D budget line item. R&D projects are subject to the decision processes of § 1216.304.

(f) *SFCDC project*. R&D type projects authorized under the SFCDC budget line item.

[44 FR 44485, July 30, 1979, as amended at 53 FR 9761, Mar. 25, 1988]

§ 1216.303 Responsibilities of NASA officials.

(a) The Associate Administrator for Management or designee, who is responsible for developing the procedures of this subpart and for ensuring that environmental factors are properly considered in all NASA planning and decisionmaking, shall:

(1) Monitor these processes to ensure that the agency procedures are achieving their purposes;

(2) Advise line management and inform NASA employees of technical and management requirements of environmental analysis, of appropriate expertise available in and out of NASA, and—with the assistance of the NASA General Counsel—of relevant legal developments; and

(3) Consolidate and transmit to the appropriate parties NASA comments on environmental impact statements and other environmental reports prepared by other agencies.

(b) Officials-in-Charge of Headquarters Offices (hereafter termed "Headquarters officials") are responsible for implementing the procedures established by these regulations for the consideration and documentation of the environmental aspects of the decision processes in their respective areas of responsibility.

(c) The Assistant Administrator for Legislative Affairs is responsible for ensuring that the legislative environ-

mental impact statements accompany NASA recommendations or reports on proposals for legislation submitted to Congress. The Associate Administrator for Management, the Chief Financial Officer (CFO)/Comptroller and the General Counsel will provide guidance as required.

[44 FR 44485, July 30, 1979, as amended at 53 FR 9761, Mar. 25, 1988; 56 FR 50507, Oct. 7, 1991]

AGENCY PROCEDURES

§ 1216.304 Major decision points.

The possible environmental effects of a proposed action must be considered, along with technical, economic, and other factors, in the earliest planning. At that stage, the responsible Headquarters official shall begin the necessary steps to comply with all the requirements of section 102(2) of the National Environmental Policy Act of 1969. Major NASA activities, particularly R&D (or SFCDC) and facility projects, generally have four distinct phases: The conceptual study phase; the detailed planning/definition phase; the development/construction phase; and the operation phase. (Other NASA activities have fewer, less well-defined phases, but can still be characterized by phases representing general or feasibility study, detailed planning or definition, and implementation.) Environmental documentation shall be linked to major decision points as follows:

(a) Completion of an environmental assessment and the determination as to whether an environmental impact statement is required must be made prior to the decision to proceed from the conceptual study phase to the detailed planning/definition phase of the proposed action. For example, this determination must be concurrent with:

(1) Proposal of an R&D (or SFCDC) project for detailed planning and project definition;

(2) Proposal of a major Construction of Facilities project for detailed planning and project definition;

(3) Proposal of an institutional action (other than a facility project) for detailed planning and definition; and

(4) Proposal of a plan to define changes in an approved project.

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(b) The final environmental impact statement (EIS) should be completed and circulated prior to the decision to proceed from the detailed planning/definition phase to the development/construction (or implementation) phase of the proposed action. For example, the EIS should be completed by, and incorporated with:

- (1) Proposal of an R&D (or SFCDC) project for development/construction;
- (2) Proposal of a major Construction of Facilities project for development/construction;
- (3) Proposal to undertake a significant institutional action (other than a facility project); and
- (4) Proposal to implement a program change.

[44 FR 44485, July 30, 1979, as amended at 53 FR 9761, Mar. 25, 1988]

§ 1216.305 Criteria for actions requiring environmental assessments.

(a) Whether a proposed NASA action within the meaning of the CEQ Regulations (43 FR 55978) requires the preparation of an environmental assessment, an environmental impact statement, both, or neither, will depend upon the scope of the action and the context and intensity of any environmental effects expected to result. A NASA action shall require the preparation of an environmental assessment (§§ 1501.3 and 1508.9 of the CEQ Regulations) provided the action is not one normally requiring an environmental impact statement (paragraph (c)) or it is not categorically excluded from the requirement for an environmental assessment and an environmental impact statement (paragraph (d)).

(b) Specific NASA actions normally requiring an environmental assessment are:

- (1) Specific spacecraft development and flight projects in space science.
- (2) Specific spacecraft development and flight projects in space and terrestrial applications.
- (3) Specific experimental projects in aeronautics and space technology and energy technology applications.
- (4) Development and operation of new space transportation systems and advanced development of new space transportation and spacecraft systems.

(5) Reimbursable launches of non-NASA spacecraft or payloads.

(6) Major Construction of Facilities projects.

(7) Actions to alter ongoing operations at a NASA installation which could lead, either directly or indirectly, to natural or physical environmental effects.

(c) NASA actions expected to have a significant effect upon the quality of the human environment shall require an environmental impact statement. For these actions an environmental assessment is not required. Criteria to be used in determining significance are given in § 1508.27 of the CEQ Regulations (43 FR 55978). Specific NASA actions requiring environmental impact statements, all in the R&D budget category, are as follows:

(1) Development and operation of new launch vehicles.

(2) Development and operation of space vehicles likely to release substantial amounts of foreign materials into the earth's atmosphere, or into space.

(3) Development and operation of nuclear systems, including reactors and thermal devices used for propulsion and/or power generation. Excluded are devices with millicurie quantities or less of radioactive materials used as instrument detectors and small radioisotope heaters used for local thermal control, provided they are properly contained and shielded.

(d) NASA actions categorically excluded from the requirements to prepare either an environmental assessment or an EIS (§ 1508.4 of the CEQ Regulations) fit the following criteria: They are each sub-elements of an approved broadbased level-of-effort NASA science and technology program (basic research, applied research, development of technology, ongoing mission operations), facility program, or institutional program; and they are each managed relatively independently of other related sub-elements by means of separate task orders, Research and Technology Operating Plans, etc. Specific NASA actions fitting these criteria and thus categorically excluded from the requirements for environmental assessments and environmental impact statements are: