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Office Memorandum • UNITED STATES GOVERNMENT

TO : Classification Committee Chairmen

FROM : C. L. Marshall, Director *[Signature]*
 Division of Classification, Washington, D. C.

DATE: FEB 21 1957

SUBJECT: MONTHLY CLASSIFICATION BULLETIN, NO. 4 This document consists of 3 pa
 No. 2 of 60 Copies, Series DP-32FR898E3512

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The following items are being presented to assist you in your local classification problems:

1. The General Manager approved on January 9, 1957, a "Special Review Program - 1957" (second accelerated declassification review program) to be held in Oak Ridge, Tennessee, beginning Monday, February 11, 1957. It is anticipated that the review program will be completed in about seven weeks. Detailed procedures and arrangements will be similar to the review program completed in February, 1956.
2. A classification guide for existing information on the proposed Merchant Ship Reactor has been approved for use. As new information is developed on this program, supplements to the guide will be issued.
3. A Classification Guide for "Production Reactor Fuel Elements" was approved for use on January 10, 1957. The guide will be issued in two parts, OC-Doc-47 and OC-Doc-48; distribution of OC-Doc-48 will be limited since the topics deal with the classification of information concerned with the development and production of a special fuel element.
4. The Manager, Chicago Operations Office, was advised January 24 that a "Classification Guide for the Fabrication of Naval Reactor Cores" for S1W/S2W, S3W/S4W, S5W, A1W/A2W, F1W, and C1W reactors has been approved for use. This guide lists the classification of information concerned with research, development, production, procurement, and construction and engineering programs related to the fabrication of reactor cores for these naval reactors.
5. In accordance with Topic 1-205 of OC-Doc-44 it has been determined that information concerning the chemical processes used in our chemical processing plants at Savannah River, Hanford or Arco may be considered as unclassified if it does not disclose:

a. Production rate data;

~~RESTRICTED DATA~~

This document contains restricted data as defined in the Atomic Energy Act of 1954. Its transmittal or the disclosure of its contents in any manner to unauthorized persons is prohibited.

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1. CLASSIFICATION RETURNED	<input type="checkbox"/>
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- 2 -

- b. Classified characteristics of the material being processed;
- c. Production plant operating conditions; and
- d. Classified programs.

General plant technology is unclassified. Line drawings and flow diagrams showing the equipment arrangement of a plant would also be unclassified.

- 6. Access permit holders in your jurisdiction who receive documents concerned with the Sherwood program, should be notified that if and when they do begin to generate new documents on controlled thermonuclear reactions, they should apply for a copy of the Sherwood Classification Guide (OC-Doc-41); until then, any extracts they prepare of classified reports in their possession should bear the same classification as the report itself.
- 7. All information concerning the design, construction, and operation of the Hanford Plutonium Recycle Reactor has been determined to be unclassified with the exception of:
 - a. Information pertaining to Pu fuel element design and fabrication technology, if alloys containing over 50 atomic percent Pu are involved; and
 - b. Information on the design and construction of the reactor shield if based on military propulsion reactor shield designs.
- 8. The policy of the Commission is to declassify all information necessary to the design, construction and operation of all reactors (see Topic 1-100) except as prohibited by Topics 10-100 and 100-100 of OC-Doc-44. The prohibition was specifically included in Topic 1-100 because it was anticipated, that instances might arise where some data concerning an otherwise unclassified reactor might require classification. It should be noted that the Reactor Supplement of OC-Doc-44 states that "Information as of the date of the guide concerning design...is unclassified". This language was deliberately used to make it clear that if an unclassified reactor is redesigned, the reactor is again classified until the new design has been reviewed and declassified by the Division of Classification. For example, if the core of an unclassified reactor has been redesigned (not merely a second edition of the original core) it should be submitted for review. The replacement of a single pump, valve, etc., would not be considered a major modification to an unclassified reactor.
- 9. The Reactor Supplement of OC-Doc-44 may not be used by Committee Chairmen, to declassify documents. Where a specific topic in the Supplement specifies "U", a new document which clearly falls within

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this topic can be originated by a classifying authority as "Unclassified". Existing classification documents should be submitted for declassification in the usual manner.

10. It has been determined that the 40,000 kilograms of U-235 allocated by the President for peaceful applications of atomic energy is unclassified. Under present regulations, U-235 enriched up to 20% may be allocated for foreign reactors under the "Atoms-for-Peace" program; any quantity of this material, within the 20,000 kg. allocated by the President is unclassified.

Of the 20,000 kg. allocated by the President for access permittees under the CAP program, any quantity of U-235 enriched up to and including 90% is unclassified. Quantities of material within the Presidential allotment, enriched to more than 90% may be declassified upon specific request to the Division of Classification.

Quantities of U-235 outside of the Presidential allotment are classified according to OC-Doc-33. However, as stated in the "Remarks" for Topic 3 of OC-Doc-33, specific quantities of U-235 for use in research reactors, other reactor development uses, or general research programs, may be declassified by the Division of Classification upon specific request. Each case, however, must be considered on an individual basis.

The fact that 93.4% enriched U-235 is "weapons grade material" is classified Secret-Restricted Data. The fact that this assay is "top product" of the gaseous diffusion plant or represents "fully enriched" material is also classified Secret-Restricted Data.

11. The question has arisen whether the declassified schedule of charges may be extrapolated and the additional information thus obtained be issued as unclassified. In context as a table or graph based on the declassified price scale, a table or a graph presenting the declassified price scale plus extrapolations to higher or lower assays computed from unclassified formulas may be issued as unclassified. It is also permissible to use on an unclassified basis zero-cost assay (0.00221) out of context of the rest of the price scale provided that reference to the declassified price scale is made, that is, in computations based on theoretical ideal cascade separative work and cost development, the zero-cost assay derived from the declassified price scale may be used without introducing a reason for classification if the fact is stated that for the sake of convenience the value based on the declassified price scale is being used. The price of MS-40 material (assay 0.004) as deduced from the declassified price scale is unclassified. In making use of the declassified price scale in this way no information should be released from which actual production costs or production rates could be derived.