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THE AEROSPACE CORPORATION



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23 September 1987

Mr. Andrew Wallo, III, NE-23
Division of Facility & Site
Decommissioning Projects
U.S. Department of Energy
Germantown, Maryland 20545

Dear Mr. Wallo:

ELIMINATION RECOMMENDATION -- COLLEGES AND UNIVERSITIES

The attached elimination recommendation was prepared in accordance with your suggestion during our meeting on 22 September. The recommendation includes 26 colleges and universities identified in Enclosure 4 to Aerospace letter subject: Status of Actions - FUSRAP Site List, dated 27 May 1987; three institutions (Tufts College, University of Virginia, and the University of Washington) currently identified on the FUSRAP list of sites under consideration; and six institutions recently identified during a search of Hanford records.

The attached was prepared to document the elimination of these institutions from further consideration under FUSRAP and serve as a basis for transfer of sites from the "Considered List" to the "Eliminated List" in the FUSRAP Site Investigation and Remedial Action Summary Report.

A separate elimination recommendation memorandum for file will be prepared to document the elimination and transfer of Brown University from the "Considered List" to the "Eliminated List" due to the extended period of time that this institution was involved in uranium and thorium metallurgical research.

Please call if you have questions regarding the attached recommendation.

Sincerely,

Charles D. Young

Charles D. Young
Project Engineer
Government Support Directorate
Architecture Planning and
Technology Division

CDY/smb
Attachment
cc: J. Fiore
R. Lewis (w/o)
File

bcc: E. Katz
S. Jones

CA
CA.04
CT.05
FL.0-01
IN.06
IN.02
IN.0-01
MA.05
MA.0-05
MD.02
ML.05
MO.0-02
MO.07
NC.01
NY.0-05
NY.0-07
NY.28
NY.0-12
NY.0-14
NY.0-19
NY.18
NY.0-21
NY.20
OH.0-01
OH.0-05
PA.0-0
PA.0-05
VA.03
WA.02

FUSRAP ELIMINATION RECOMMENDATION
COLLEGES AND UNIVERSITIES

The purpose of the FUSRAP Identification and Characterization Process was to identify sites formerly used by or in support of Manhattan Engineer District (MED) and Atomic Energy Commission (AEC) activities during the early phases of nuclear energy development. The primary objective of the record searches conducted during the process was to identify facilities that handled or processed significant quantities of radioactive material and to obtain information necessary to determine the potential for residual radioactive contamination above current criteria and guidelines. Several colleges and universities, including the University of California, the University of Chicago, Iowa State College, Massachusetts Institute of Technology and others identified in this category of sites, were involved in uranium and thorium feed material processing and metallurgy. Reports addressing the operations at each of these institutions were prepared to support recommendations for designation of the sites for remedial action or elimination from further consideration under FUSRAP.

A number of other colleges and universities that made significant contributions to MED and AEC research and development programs were also identified and included on the FUSRAP site list. Subsequent record searches revealed that, with the few exceptions sited above, participation of the majority of these institutions was limited to research activities involving small quantities of radioactive materials in a controlled environment. No information has been found that would indicate a significant potential for continued presence of residual radioactive material as a result of these operations at the institutions identified below. The probability of finding information to the contrary is considered remote. Therefore, further investigation is not considered warranted. Furthermore, unless directed to the contrary, the institutions listed below will be eliminated from further consideration and appropriate site files will be closed by insertion of a copy of this document.

| <u>NAME</u> | <u>LOCATION</u> | <u>REMARKS</u> |
|-----------------------------------|-------------------|----------------|
| California Inst. of Technology | Pasadena, CA | Note 3 |
| University of California | Davis, CA | Note 2 |
| Yale Heavy Ion Linear Accelerator | New Haven, CT | |
| University of Miami | Perrine Field, FL | |
| Indiana University | Bloomington, IN | |
| Purdue University | Layfayette, IN | Note 1 |
| Van Der Graaf Laboratory | | |
| University of Notre Dame | South Bend, IN | Note 2 |
| Harvard University | Cambridge, MA | |
| Tufts College | Medford, MA | |
| Johns Hopkins University | Baltimore, MD | |

| <u>NAME (Continued)</u> | <u>LOCATION</u> | <u>REMARKS</u> |
|--|-------------------------|----------------|
| University of Michigan | Ann Arbor, MI | |
| St. Louis University | St. Louis, MO | Note 1 |
| Washington University | St. Louis, MO | Note 1 |
| North Carolina State University | Raleigh, NC | Note 3 |
| B. Thompson Institute - Plant Research | Yonkers, NY | |
| Carnegie Institute of Washington | Cold Springs Harbor, NY | |
| Cornell University and Medical College | New York, NY | |
| Fordham University | New York, NY | |
| Long Island College of Medicine | New York, NY | |
| Polytechnic Institute of Brooklyn | New York, NY | |
| Rensselaer Polytechnic Institute | Troy, NY | Note 3 |
| Rockefeller Institute for Medical Research | New York, NY | |
| University of Rochester | Rochester, NY | Note 2 |
| Case School of Applied Science, Ohio State University | Columbus, OH | Note 1 |
| University of Cincinnati | Cincinnati, OH | Note 3 |
| University of Pennsylvania | Philadelphia, PA | |
| University of Pittsburgh | Pittsburgh, PA | |
| University of Virginia | Charlottesville, VA | |
| University of Washington | Seattle, WA | Note 1 |

In addition, search of Hanford operations records from the early 1950's on file in the DOE Richland Operations Office revealed five additional colleges and universities that performed research in support of Hanford's Division of Biology and Medicine and Division of Research. Information assembled to date indicates that the activities conducted at these institutions fall in the category described above indicating little or no potential for residual radioactive contamination as a result of the work performed during that period. Therefore, the sites listed below will be added to the FUSRAP list of sites identified, and eliminated from further consideration as candidate sites.

| <u>NAME</u> | <u>LOCATION</u> | <u>REMARKS</u> |
|---------------------------------------|-----------------|----------------|
| Reed College | Portland, OR | |
| Washington State University | Pullman, WA | |
| University of Oregon and Medical Sch. | Eugene, OR | |
| Oregon State University | Corvallis, OR | |
| University of Wyoming | Laramie, WY | |
| University of Idaho | Moscow, ID | |

Notes identified in the Remarks section of the lists above reflect information regarding status and licensing assembled during the course of historical records searches. Specific searches of current NRC licensing

records and DOE contract records were not conducted. Therefore, identification of institutions under current NRC license or DOE contract may not be complete.

Note 1. Facility operating under active NRC license.

Note 2. Active DOE contractor facility.

Note 3. Facility was operated under AEC or NRC license.