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DECLASSIFICATION REVIEW

DETERMINATION [CIRCLE NUMBER(S)]

1. CLASSIFICATION RETAINED

2. CLASSIFICATION CHANGED TO:

3. CONTAINS N > DOE CLASSIFIED INFO

4. COORDINATE WITH:

5. PLASSIFICATION CANCELLED

6. CLASSIFIED (NFO BRACKETED)

7. OTHER (SPECIFY):

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Monactical Research Activities

REVIEWER (ADD):
NAME: ML KOLBAY

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way for the origin of organic naturals on this earth millising counts rays as the high energy source and the atmosphere as the dilute aqueous colution. Sombardments were made using the 10 Mev believe ian beam of the 60-duch systotion. Carbon-II: labelled carbon disside was bombarded and the reduction products were separated by the utilisation of paper abromatography. It appears that approximately one-quarter of the dissolved carbon disside was reduced to formic acid and formaldehyde.

Whether or not derbon-carbon bonds and derbon-disrogen bonds that exist in biological material can also be formed and more highly organized structures created under the influence of high energy radiations to at present under investigation.

Managements Darkitute of Technology - The Health and Safety Division, MYCO, has reported that experiments were begun at MIT water Dr. Robley D. Brons on studies of boss grafts using days injected with Col.S. The Gals migrations will be studied in hot grafts to sold houts and in sold grafts to hot books.

Rational Person of Standards to Furnish the Radiation Instruments Breach under the Immonist Person of Standards to Furnish the Radiation Instruments Breach under the Immonist Pile (high voltage) bettery development contract: (1) A 3,000 volt pile for inclusion in a 5-05 designed small portable alpha proportional counter, and (2) 60 velt piles which may be used in a hermatically scaled quarts fiber does rate notes developed at the Argenna Mational Laboratory. The indefinite life of the Ramboni pile will permit the operation of the Argenna instrument to be combined and indefinite and, since essentially no current is required, once it is calibrated and scaled the instrument abould require no further maintenance.

Twenty radiation detection instruments valued at \$5,250 were received in stock and forty-one instruments valued at \$13,760 were shipped to laboratories for inspection and evaluation. New equipment valued at \$1,890 was ordered during the months

Loan of Instruments - Proliminary examplements have been made to loan the Food and Drug Administration 32 survey meters for a period of 2 to 3 months for their use in training inspectors and chemistee

Right scaling units and one automatic sampling changer were lossed to the USAF for use in test activities.

Field Investigations

New York Operations Office - Following Commission approval of a \$1,300,000 level of support in Fiscal Year 1952 and a new plan of operation for the ABCC contract, a meeting was held in New York to implement the

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Division of Biology and Medicine. Mr. Brown and the Division, Mr. Medd, Business Manager, Makings (the contractor), and Mr. Milton Evans, Business Bealth and Safety Division, iles attended. The meeting was called by Marril Risembud, Director, Division, MIDD, who administers the contenst for the boy and Medicine. Mr. Mrown and Dr. Mardie attended for habianal Academy of Sedences Manager, ABCC in Japan,

Mutual responsibilities under the contrast were clarified, channels of construction were established, and final steps toward commending construction of the new, but previously approved, bouning and wavehouse facilities Taken.

facility over the more construction from a Division, W THE PERSON bould be given to WIT 2 networkies the dependent for their four years as it is a 1 Side with the same of the same A the sec Andrea .

Hound Laboratory - Dr. Sugher, Dr. Claus, 2r. Desith Blvisian of Mology and Medicine, and Dr. Lengham Scientific Laboratory, reviewed the Mound Laboratory problems and the role of the Mology Laboratory in the of expenses on Mound Laboratory workers. Dr. Anthony, Michael Caloratory, described the biology program and a improved facilities. The Los Alamos and Mound Laboratory n substitute autorials was excelully review regram to be concentrated in the future at lance to forward to Mound the data it has to ton hornbory biological program ments made for the y at the attenta

Realth Physics

Colorado Flatean area for the purpose of mating tion of airborne degradation products of radon The results show that radon concentrations are Examination of a Typical Uranium Ming - De Division of Mielogy and Medicine, in ecoperation United States Public Health Service visited a te lation products of radon are present THE PLANT there are expend. 2 2 5

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per week which is mercally considered an acceptable does. Thile there are several factors which indicate that the miners are not in immediate peril, nevertheless, years of exposure to these dosages may well involve some risks further studies are planned with USPHS for the purpose of evaluating the besard as realistically as possible and of recommending corrective measures.

intilinate of Granical Company, St. Louis, Missouri. - The Maphyrics brunch has found that the present environmental control group, under the direction of Mr. K. S. Caplan, assumed charge March 1948, and has made most commandable progress in reducing parametal expenses. Thereas prestinally every worker had received radiation in expense of permissible does, the latest quarterly every solves that no one now more characteristics the permissible does, the latest quarterly from the workers receive more than half the aridisethia

Nestrone Tests

Convenientian of Mismodical Programs - By Commission artism, the Division of Mislagy and Medicius has been given respeciability for the scordination and suvering of Mismodical experiments and Civil Defense programs as well as similar proposals from within the ABC experiments. The Manager, SPO, through the Division of Military Application, will determine feasibility. The Mivision has scordinated and resonanted a limited scape biomedical program proyected by the Ayand Forces Special Mespece program for incorporation in Operation MCSTER.

Operation JANGIN - A second meeting of the Pensibility Committee to study rediciogisal entrty appears of Operation JANGIN was held in Mashington. The Committee's function has been to determine whether or bet the test can be safely emrised out within the continental limits of the United States and, if so, to recommend meteorological, physical, and biological data to be obtained as a result of the burst. The original recommendations were recommissed in the light of additional information and a modified set of criteria was recommended for the tester. There was no change in the of criteria was recommended original agreement that the tests are feasible

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Civil Defense Astivities

The FULL has empressed some concern over poblatining weapons development data relating to suggested by the FULL that a brising session i bern over pessible difficulties in usion for principal staff and etarii e

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AEC Commissioners be arranged for the purpose of acquainting the AEC with FCDA problems.

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Operation "Not Rod" - A classified version of "Operation Not Rod", prepared by the Diophysics Branch, concerning information relating to the effectiveness of automobiles as shelters during an atomic attack, was forwarded to the FCDA for evaluation with respect to shelter planning work.



Chalk River Accident - A report prepared by the Medical Branch, concorning information relating to an accidental explosion at the Canadian Chalk River atomic energy installation, was forwarded to the FCDA as data of potential value in the Civil Defense medical planning program.



FCDA Participation in Fall Tests - A conference was held with representatives of the FCDA Test Branch, Division of Military Application, and the Civil Defense Limison Branch, to firm up FCDA requirements and participation in connection with fall tests. The FCDA submitted a program for testing a total of ho "back yard" type shelters. The Civil Defense Limison Branch has endorsed the request to the Division of Military Application for consideration. It is understood that the FCDA will submit another program covering the training of FCDA personnel in radiological safety.

FCDA Shelter Panel - At the request of the FCDA, Rebert L. Corsbie, Chief of the Civil Defense Limison Branch, represented the AEC at the "FCDA Shelter Panel" held the week of July 23, for the purpose of reviewing and reporting on the Lehigh University Institute of Research on criteria for designing:

Home Shelters Shelters in Fristing Buildings Communal Shelters

Professor Harry L. Bomman, Consultant to the Civil Defense Limison Branch, attended the July 25 sessions.



AEC Personnel Shelters - A program for testing AFC personnel shelters of the communal type has been submitted for consideration for inclusion in Operation SUSTER, and approved. These shelters have been designed for use at AEC prime target areas, as part of the AEC Disaster Flan coordinated by Ur. Fleury, Division of Security.

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Class and Class Substitutes - Mr. Carable met with Mr. Walton G. Clark of Public Buildings Service and Mr. Sharmed B. Saith, AFSNP, Director of CHEENHOUSE structural tests, and discussed the report entitled wine Rifects of Atomic Waspers on Clasing and Window Comstweation; summerising this part of the CHEENHOUSE test dute. The report was in preliminary form but provided upeful data on the probable missiles effects of glass and the characteristies class substitutes.

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Instruments and Incheses for Civil Before to loss rectation detection instruments for a to the FCIA Central Training Center at Calaba State Civil Defense Agency. The latter size : 100 sources for training purposes. H and to the Ker Jerney & the Lean of radia--

A jointly sponsored ANC-FUIA booklet ceresing the prepositives to be followed in submitting requests for the loss of instruments and sources ANC has been distributed to ANC and FUIA field agencies. securos bus 7

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Combined Conferences on Emergency Freeding - Landon, Buckend - Several meetings have been held to discuss the agends for the embined conferences on emergency freeding to be held in Louden in late Seventer or early December. The Division of Biology and Modicine has participated in the preparation of the agends for the conferences, insuring that items of special interest to the USARC will be given appropriate consideration and that reports of the conferences will be available to the Division of Biology and Medicine. It is sufficiently and that there will be between 25 and 30 representatives from Undered States attending the conferences.

Construction Progress

New Laboratory Construction Criteria - The Civil Defense Limison Drunch reviewed plans and preliminary oriberia for the proposed AUC installation at Booky Flats and furnished comments to the Division of Construction and Supply.

University of California Atomic Reserve Project - Berkeley - With the exception of some since cleaning up, construction work on the two-story animal house has been completed. Installation of some equipment is still this building extension, be under PIT A to the start 2 4 2 equipment is still k to be appropried

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Monthly Status and Progress Report

Molocy and Indicine

Brookhaven Riology Laboratory - Twelve bids were received, and spends for the new biology Laboratory, with an escendingly favorable law bid of \$883,700. This bid permits revision of the total budget cost estimate of \$1,200,000 to \$989,700.

Hanford Aquatic Laboratory - A lew bid of \$372,000 has been received on the aquatic Laboratory. The work is expected to be completed in June 1952.

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