

RG 77

Ext 22

B-173

4. Colletts has expressed dissatisfaction with the amount of work done, not however so far as the results were concerned, but rather as far as publicity and the handling of observers. He felt first that it was definitely a Navy show, and run by the Navy staff for its own interests. He said he had the impression that the Manhattan Engineer District was only so much as the Navy desired and the Office of the Military Attache was badly timed, or is regarded with suspicion at the American Embassy, London. He stated that the real results, particularly of the original experiments, had not been well presented to the public, both in the French and European and the American press. He saw the results in the way they were officially announced, and to be obtained then as so.

SUBJECT: Review of the French Atomic Energy Development.

TO : Colonel L. E. Seaman, Room 4181, New War Department Building, Washington, D. C.

1. Reference is made to your letter, same subject, dated 31 July 1946, and our interim report of 27 September 1946. This is our second interim report covering information collected during recent weeks.

2. Additional information has been obtained on geological survey activities. Monsieur Savornin is in charge of all Geological activities. Under him are Jean Orcoi, in charge of Field work and L. Barrabe in charge of training. An article signed by Gilbert Ganne, appeared in 14 October 1946 issue of Paris-Matin concerning prospecting for Uranium in France and the Colonies. Major Spear reports as follows:

a. The article states that, after a year's training under Monsieur Savornin, fifty prospectors and mineralogists are being formed into teams for the purpose of prospecting for minerals of interest in nuclear research in France and the colonies, with the exception of the Antilles, Reunion Island and French Guiana. Twenty of these specialists will remain to prospect in France, and thirty will carry on the work in the colonies. (The report further states that the team for Madagascar has already arrived in the colony, where (recently) it has established its headquarters. Work in Madagascar will be met with many great difficulties because of lack of labor.

b. Deposits in France, according to the story, seem to be most favorable (from the point of view of exploitation) in the regions of Morvan and Monts-du-Forez, although it is pointed out that the quality of the material is highly variable.

3. It is known that the offices of the HCOM occupy the second floor of the building at 41 ave Foch. The building is a large house (occupied, incidentally, also by the Princess A. de Broglie) of the same general style of other houses in this very wealthy section of Paris. None of the offices have any indication as to who occupies them, nor what kind of work is being done inside. In other words, the offices are not marked with numbers, signs or names. Gieron has a very small office.

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4. Goldschmidt has expressed dissatisfaction with the Bikini experiment, not however as far as the results were concerned, but rather as far as publicity and the handling of observers. He felt first that it was definitely a Navy show, and run by the Navy solely for its own interests. He said he had the impression he was being allowed to see only so much as the Navy desired him to see. He felt that the experiment was badly timed, as it coincided with discussions at ONU (UNO) in New York, on atomic energy control. He felt also that publicity had been badly handled. He seemed to think that the real results, particularly of the second experiment, had not been well presented to the public, both by the French and European and the American press. As for the results as he knew them, from official sources, and as he obtained them as an official observer, Goldschmidt seemed satisfied.

5. Major Speer's comments on questions outlined in your para 3, are as follows:

- a. Unknown.
- b. Unknown.
- c. No change from last report.
- d. No change from last report.
- e. No change from last report.
- f. No change from last report.
- g. No change from last report.

6. Speer has begun making an inventory of nuclear physics equipment in France. The first edition is given below. It should be pointed out that we regard it as most sketchy, with many details yet to come. Its one merit is that it is a beginning.

- a. CYCLOTRONS
 - (1) College de France, 30 tons
 - (2) Centre anticanceroux, Marseille, 10 tons
 - (3) ...? (projected, possibly for College de France), 500 tons.
- b. CUSCUS TUBES
 - College de France (mfg by Andre Fournier, Neuilly s/Seine)
- c. MASS SPECTROGRAPHS
 - None
- d. CASCADE GENERATOR
 - (1) Ivry
 - (2) Lyon
- e. VAN DE GRAAF GENERATOR
 - (1) Paris (Palais de la Decouverte - 4 million V.)
 - (2) Lyon
 - (3) Ivry
- f. BETATRONS
 - None

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g. IMPULSION GENERATOR (Générateur à impulsions)

Ivry

h. TUBE DEMONTABLE

- (1) Ivry (for X rays of 3 MeV)
- (2) Marseille (up to 1 M V)

7. Reference is made to your letter para 3, sub-para as follows:

- a. Your sub-para l: No change from previous report.
- b. Your sub-para m: No change from previous report.
- c. Your sub-para n: No change from previous report.
- d. Your sub-para g: Probably, the Syndicate Lyonnais de Madagascar, 16 Cite d'Autin, Paris is involved in manufacture of carbon blocks. This company has long produced graphite for use as lubricants and electrical carbons in France.

8. A partial list of personnel in French nuclear research in Paris, as associated with Universities, is attached as Inclosure 1.

9. After discussing the matter with Commander Welsh, this office intends during the coming month to take the basic French Report prepared in August 1946 and put it through an extensive revision. Data obtained since that time will be incorporated, there will be new interpretations, etc.

EDGAR F. DEAN,
Lt. Colonel, AUS.

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French Nuclear Physics Personnel as Associated with Universities

Collège de France

Leon Brillouin, professor, Theoretical Physics
Francis Perrin, professor, Atomic and Molecular Physics
Alexandre Davvillier, professor, Cosmic Physics
Ferdinand Joliot-Curie, professor, Nuclear Chemistry
Antoine Lacaze, professor, Experimental Radio-Biology

University of Paris

École Normale Supérieure

(Notes: Faculty of this school are members of the Faculty of Sciences, delegated to teach in the ENS)

Physics:

Louis de Broglie
Kantler
Pauthenier, work in physics
Saurand (charge de conférences)

Chemistry: work in chemistry

Chaudron
Dupont
Hackspill
Fasgal
Vavon

Faculty of Sciences:

Louis de Broglie, theoretical physics, undulatory mechanics
Francis Perrin, theoretical physics, undulatory physics
H. Beghin, mechanics, experimental and physical
...Villey, applied mechanics
...Villat, mechanics of fluids, and applications
...Leray, ibid.
E. Darmon, advanced physics (instruction)
...Cabannes, physics (research), undulatory optics, interferences, diffraction, polarisation
...Rocard, physics (research), electricity and acoustics
...Lucas, ibid.
...Doucet, physics (research), in charge of practical lab. work
Eugene Bloch, physics
...Kantler, physics
...Debierno, general physics and radio-activity
Irene Joliot-Curie, ibid.
...Grose, theoretical physics and celestial physics, atomic spectra, structure and excitation in luminous sources
...Pauthenier, general electro-technique
...Arnulf, applied optics
...Tollier, terrestrial magnetism, ionosphere
...Coulomb, seismology, weight, physics of the interior of the Earth

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Mme Y. Labrousse, practical work in subjects of the two preceding
Ch. Mauguin, mineralogy
J. Nyart, mineralogy, cristallography
...Ribaud, high temperatures
...Dupont, chemical theory
...Fascal, general chemistry
...Job, *ibid.*
...Audubert, electro-chemical properties of solutions
...Gélozo, practical lab. work in chemistry
...Frevost, structure and reactivity
...Hackspill, mineral chemistry
...Vavon, chemical analysis and measurement
...Chaudron, chemistry, measurement, X-rays as applied to chem. analysis
...Dauer, physico-chemistry
...Wurmser, physico-chemical biology
...Barzabe, structural and applied geology
...Lanquine, *ibid.*
M. Curie, physics
...Lucas, physics
...Destriau, lab work in physics
...Laffitte, chemistry
...Chretien, chemistry
...Fiaux, lab work in chemistry

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