



UNIVERSIDADE DE MINAS GERAIS  
ESCOLA DE ENGENHARIA  
INSTITUTO DE PESQUISAS RADIOATIVAS

Nº 104/59

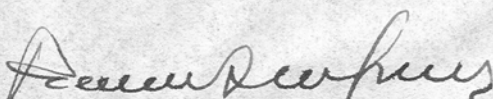
Belo Horizonte, June 12, 1959.

Dr. Albert P. Graff  
Manager, Training Research and Isotope Reactor Program  
P.O. Box 608, San Diego 12, California  
United States

Dear Sir,

1. I have the pleasure to send you the information required in connection with the consideration of Material Damage and Liability insurance. Something could not be answered. I will answer later, when the building will be finishing. Enclosed with this letter you will find a copy of the map of the building neighboring area, as well as the information required.
2. I may say that I agree with the second group training postponement. Inasmuch as Dr. Milton Campos, one of second group of trainees is in Canada, I could not get in touch with to notify him, I will communicate the postponement, suggesting him to get in touch with you in order to reach agreements.
3. I received a cable from Mr. Carlos Rodrigues Pereira asking information regarding the placement of the rabbits. I have to inform you that they may be placed in the Radiochemistry Laboratory near the reactor room, according to the drawing sent to Dr. de Hoffmann.
4. I am looking forward to hearing from Dr. de Hoffmann, in reply to my letter of May 11, 19 59, Nº 65/59.

Sincerely yours,

  
Prof. Francisco de Assis Magalhães Gomes  
Director



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INFORMATION REQUIRED

ATOMIC ENERGY -- MATERIAL DAMAGE AND THIRD PARTY

REPORT

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(A) GENERAL DETAILS

1. Instituto de Pesquisas Radioativas da Escola de Engenharia da Universidade de Minas Gerais -- (Institute for Radioactive Research, School of Engineering, University of Minas Gerais).

Dean of the School: Prof. Mario Werneck de Alencar Lima.

Director of the Institute: Prof. Francisco de Assis Magalhães Gomes.

2. University campus, University of Minas Gerais, Belo Horizonte, Minas Gerais, Brazil.

3. (a) Nuclear Physics experiments

(b) Production of radioisotopes by irradiation, for scientific and technological researches and uses in Medicine, Agriculture, etc.

(c) Training of nuclear engineers

(d) Tests of materials used in nuclear engineering.

(B) SITE

University campus. An area of 4,000,000 sq meters, 21°C average annual temperature, 12°C in Winter (minimum) 30°C in Summer (maximum), 900m above sea level, NE prevailing winds.

6. General description of the surroundings embracing --

(a) The town nearer the campus is Belo Horizonte, capital of the State of Minas Gerais, 6km far from the campus. 8km far from the center of Belo Horizonte there is a small village, Venda Nova.

(b) Belo Horizonte: 600,000 inhabitants, and Venda Nova: 10,000



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2.

- (c) Small water courses as shown in the attached map. The Pampulha reservoir.
- (d) The Pampulha Airport. Houses along the border of the Pampulha Reservoir. An Air Force Basis. Small houses disseminated in the area. Small farms. The university campus. A Reserve Officers School - A Military High School. A High School for Girls.  
Present value: \$ 600.000.000,00.
- (e) Small orchards.

(c) THE BUILDING

- 7. Escritório Técnico da Cidade Universitária  
Rua Espírito Santo, 1 186 - Belo Horizonte  
Chefe: Prof. Eduardo Mendes Guimarães Junior

This is the Office in charge of the construction of the buildings in the university campus.

- 8. The building of the reactor. The design is not yet finished. A 4.000sq. meters laboratory building, modern, with very good specifications.

(E) ANCILLARY NUCLEAR EQUIPMENT

- 13. None equipment.

(G) OTHER CHEMICAL SUBSTANCES

- 15. There will be only some usual chemicals for laboratory uses such as chemical analysis. The storage arrangements are the usual one.

(H) WASTE

- 16. Waste materials will be rejected by sewerage system of the university campus.



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3.

(I) SAFETY FEATURES

17. Agreements for items (a) and (b) will be reached with the Brazilian Nuclear Energy Commission.

(J) FIRE PROTECTION ARRANGEMENTS

18. (a) There will be a sufficient number of fire extinguishing appliances in the building.
- (b) No own Works Brigade.
- (c) The Public Fire Brigade of Belo Horizonte whose station is 10 km far from the campus.
- (d) The supply of the University campus.
- (e) There will be 2 (two) lightning protectors, viz., one in the reactor building and one in the neighboring building.

(K) STAFF

19. The staff of the Instituto de Pesquisas Radioativas da Escola de Engenharia da Universidade de Minas Gerais.

(a)

(i) Eduardo Schmidt Monteiro de Castro, Professor of Physics,  
E.E.U.M.G

Francisco de Assis Barcellos Corrêa Junior, Physical Chemistry Professor - E.E.U.M.G.

Maria Carmen Tavares Coelho - Chemical Engineer

Emilio de Vasconcellos Paes - Civil Engineer - Professor of Reactor Physics (E.E.U.M.G. - Nuclear Engineering Course).

A three year course of Modern Physics in Columbia University.

Bricio Theodolindo da Silva Pereira - Bachelor of Physics.

Harry Gomes - Chemical Engineer - Professor of Nuclear Physics (Nuclear Engineering Course - E.E.U.M.G.).

A three year specialization course (in ANL and in the University of Minnesota).

Julio Rodrigues - Engineer of Electronics with a specialization



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4.

in Saclay, France.

Flavio Soares de Menezes - Engineer

A two year specialization course in the Illinois Institute Technology and Rensselaer Polytechnic Institute).

Elvé Monteiro de Castro - Engineer of Electronics.

A specialization in Grenoble, France.

Marcio Quintão Moreno - Physics Licensee.

At present in a three year course in the University of Torino, Italy.

José Israel Vargas - Professor of Chemistry.

At present in a three year course in Cambridge University, England.

Cassio Mendonça Pinto - Professor of Chemistry, E.E.U.M.G.

Édio Vieira de Azevedo - Professor of Physical Metallurgy - E.E.U.M.G.

Iphygenio Soares Coelho - Professor of Geology - E.E.U.M.G.

- (ii) Six engineers with training in General Atomic Laboratories in San Diego, California, especially in the operation of the TRIGA reactor, as follows:

Haroldo Rocha Vianna, Civil Engineer. At present, in ORNL, Oak Ridge, Tenn. United States.

Carlos Rodrigues Pereira - Civil Chemical and Nuclear Eng. A specialization course in ANL. At present, in ORNL, Oak Ridge, Tenn., United States.

Mauricio Mendes Campos - Civil and Nuclear Engineer. At present in ORNL, Oak Ridge, Tenn., United States.

Ramayana Gazzinelli - Civil and Nuclear Engineer.

Jair Carlos Mello - Civil and Nuclear Engineer.

Milton Campos - Chemical Eng. A specialization in the Institute for Nuclear Studies, Chicago Univ. United States and in Chalk River, Canada.