ATTACHMENT 5

MEMORANDUM OF AGREEMENT (MOA) OWNERSHIP

BROOKHAVEN
NATIONAL LABORATORY

Reactor Division
HFBR Building 750
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Managed by Brookhaven Science Associates
for the U.S. Department of Energy

Memo

DATE: May 14, 1999

TO: Clyde Newson

FROM: Leo Somma, HFBR Facility Manager

SUBJECT: Building 704 Fan House/Fan Cells

REFERENCE: Memo Dated December 11, 1998, W. Reeside to F. Petschauer, MOA

The Reactor Division (RD) has completed their cleanup of the Fan House Building 704 north side five (5) fan cells, the secondary air fan cell and the three (3) west end auxiliary rooms (total of 9 rooms) as agreed upon in the above referenced memo. The remaining items are considered excessed materials, which may be discarded.

The ductwork has been isolated from the HFBR as best as practical by verifying appropriate valves (total of 9) closed. The actuators have been disconnected up to the valve bodies. Warning signs have been placed on these valves which define the HFBR confinement barrier. These signs should not be removed nor should these valves be repositioned without prior planning and coordination with HFBR Operations and Work Controls groups.

The door locks have been rekeyed to be controlled by your group. We have two keys, which will be maintained, in the HFBR control room for emergency purposes. The building key plans for 704 have been revised to reflect the division of responsibilities for control of work activities. New Building Manager placards should be posted on these rooms

By copy of this memo you now have ownership and control of the nine (9) rooms. We will need to maintain continuous communications to ensure the operating requirements for both the HFBR and the BGRR can be adequately supported.

Distribution:
M. Davis, HFBR
K. Jackson, BGRR
G. Mehl, HFBR
F. Petschauer, BGRR
A. Queirolo, HFBR
R. Reciniello, HFBR
W. Reeside, HFBR
J. Roesler, Fire/Rescue

BROOKHAVEN NATIONAL LABORATORY
MEMORANDUM

Brookhaven Graphite Research Reactor (BGRR)
Building 701

DATE: December 11, 1998

TO: W. Reeside, Reactor Division

FROM: F. Petschauer, Project Manager FP

SUBJECT: **Memorandum Of Agreement (MOA) for the Ownership of the Fan House, Building 704, and the Primary Exhaust Air Duct System and Associated Systems and Components**

On Thursday, November 19, 1998, and subsequently, Messrs. C. Newson and E. Lilimpakis of the BGRR Project staff and Mr. L. Somma, HFBR Facility Manager, met and conducted a walk down and inspection of the Fan House Building 704, the primary exhaust air duct system and associated systems and components. The purpose of the meeting was to determine a reasonable and acceptable approach to the ownership of the Fan House Building 704 and associated system components. This will support the operational HFBR activities and the stabilization of the BGRR complex and the near term Decontamination and Decommissioning (D&D) of the BGRR.

The exhaust air duct located on the roof of Building 704, the fans up to the fan discharge isolation valves and the fan rooms will be characterized during the upcoming BGRR facility characterization scheduled to begin in February 1999. The results of the characterization will be used to stabilize the structures and systems and the data evaluation will provide input into D&D alternatives for the near term D&D of the BGRR facilities, presently scheduled for FY02.

Control and ownership of the Fan House Building 704 fan rooms, primary exhaust air duct work, the building west side end rooms needs to be relinquished to the BGRR Project. The BGRR fans and duct work will be isolated in the fan house from the underground primary exhaust air duct work to support HFBR operations at the following locations:

- Fan Discharge Isolation Valves for Fans 1 through 5, located in each fan room.
- Secondary air discharge Motor Operated Valve (MOV) located in the secondary air cell.
- Fan 5, 48" butterfly bypass discharge isolation valve, located in the fan motor room.
- The emergency fan discharge isolation valve to the underground duct, located in the secondary air fan room.

Control and ownership of the Fan House Building 704 that includes the motor rooms, HFBR electrical distribution switchgear area, battery room, and the two west storage areas remain with the HFBR.

In an effort to accomplish these tasks, it is necessary to clear HFBR materials stored in the fan rooms and the building west side end rooms. The BGRR Project will properly dispose of all materials that remain in these rooms after April 1, 1999.

During the stabilization of the Fan House, the BGRR Project will seal any north wall penetrations between the fan rooms and motor rooms to provide a physical barrier to the HFBR electrical distribution switchgear room and west end storage areas and duct work and BGRR areas.

The above ground roof duct work will be removed during decommissioning. This will include the fans, associated valves, and metal duct work. The duct work under the Fan House will be isolated at the fan discharge isolation valves as listed above to provide the HFBR confinement. This duct work is pressurized from HFBR operations downstream of the fan discharge isolation valves.

Systems, equipment, components and structures common to the HFBR and the BGRR, the steam return from the motor room unit heaters, fire detection, electrical distribution and any others, will be controlled by the HFBR. Necessary communications will be conducted to ensure the operating requirements for both the HFBR and the BGRR can be adequately supported.

Please review the attached proposed HFBR and BGRR Memorandum of Agreement (MOA).

I look forward to meeting with you and members of your staff to finalize details that will minimize any inconvenience in separating the BGRR and the HFBR operations at the Fan House, Building 704, the primary air cooling duct work and associated equipment and structures.

cn/mcb
Attachment
cc: E. Lilimpakis, BGRR
C. Newson, BGRR
C. Polanish, DOE-BHG
A. Queirolo, Reactor
M. Schlender, DO
T. Sheridan, DO
L. Somma, Reactor
File 1.4.1

Memorandum of Agreement (MOA)
Between
High Flux Beam Reactor (HFBR) and
Brookhaven Graphite Research Reactor (BGRR)

Ownership and Control of Fan House Building 704 and Associated Equipment, Systems and Structures

HFBR

- Remove HFBR desired or necessary materials from the Fan House Building 704 north side five (5) fan rooms, the secondary air fan room, the instrument room and the west side secondary fan room, and the gas engine drive emergency exhaust room, a total of nine (9) rooms, by April 1, 1999.

- Isolate the duct from the HFBR by:
  - Verifying CLOSED and tag closed, Fan Discharge Isolation Valves for Fans 1 through 5, located in each fan room.
  - Verifying CLOSED and tag closed, Secondary air discharge Motor Operated Valves (MOV s) located in the secondary air cell.
  - Verifying CLOSED and tag closed, Fan 5, 48" butterfly bypass discharge isolation valve, located in the fan motor room.
  - Verify closed and tag closed, the emergency fan discharge isolation valve to the underground duct, located in the secondary air fan room.

- Control and maintain the Fan House Building 704 south side Motor Room, associated electrical equipment, battery room, west end storage areas, systems, and adjacent out doors paved land areas.

BGRR

- Control and maintain the Fan House Building 704 north side five (5) fan rooms, the secondary air fan room, the west side emergency fan room, and the gas engine drive emergency room, a total of nine (9) rooms, associated equipment, systems, and adjacent out doors paved land areas.

- It is the intent of the BGRR project to characterize the primary air exhaust duct work under the Fan House Building 704 north side downstream of the fan discharge isolation valves. It is further the intent of the BGRR Project to isolate the HFBR duct work from the BGRR portion of the duct work and D&D the isolated duct work during the near term D&D of the BGRR.

- Dispose of any remaining materials in the controlled and maintained areas of the Fan House Building 704.

- Seal the wall penetrations between the motor and fan rooms and verify instrumentation tubing associated with the duct work is sealed to provide a physical barrier to the HFBR electrical distribution switchgear, minimize the potential to spread contamination and water intrusion during BGRR stabilization activities.

BGRR and HFBR

- Systems, equipment, components, and structures common to the HFBR and the BGRR, the steam return from the motor room unit heaters, fire detection, electrical distribution and any others, will be controlled by the HFBR. The HFBR will notify the BGRR when maintenance or surveillance monitoring is needed that changes the systems that support the BGRR controlled areas. Necessary communications will be conducted to ensure the operating requirements for both the HFBR and the BGRR can be adequately supported.

- Following the characterization of the fan rooms on the north side of the fan house building 704, at least one of the fan rooms will be made available to the HFBR for storage of material until suitable long term storage arrangements can be made by the HFBR.

- Key Plans maintained by the Plant Engineering Department will be revised to reflect the division of responsibilities for the Fan House Building 704 delineating the BGRR and HFBR as the contact for planning work activities in their respective areas of the building. The Fan House Building 704 Key Plan will also be revised to require notification of the other organization of the impact for any planned work activities to be conducted in and around the building.

- The contact person for the HFBR is Leo Somma, HFBR Facility Manager, 344-3103.

- The contact person for the BGRR is Clyde Newson, BGRR Project Engineer, 344-2646.

William A. Reeside Jr. — 12/18/98

W. Reeside
Reactor Division Manager

Date

F. Petschauer — 12/11/98

F. Petschauer
BGRR Project Manager

Date