



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

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JUN 10 1979

MEMORANDUM FOR: Qualification Testing Evaluation
Research Review Group

FROM: R. Feit
Research Support Branch
Division of Reactor Safety Research

SUBJECT: MEETING REPORT

The enclosed meeting report covering the meeting of the Qualification Testing Evaluation Research Review Group on June 6, 1979, is transmitted for your information.

A handwritten signature in cursive script that reads "Ronald Feit".

R. Feit
Research Support Branch
Division of Reactor Safety Research

Enclosure: as stated

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June 1979

Addressees - Memorandum dated _____

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C. Long, DSS
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R. Ferguson, DOR
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J. Johnson, AL
L. Bonzon, Sandia
D. Dugan, Sandia
F. Thome, Sandia
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W. Van Rieseemann, Sandia

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Name of Author: Ronald Feit

Date and Place: June 6, 1979; Bethesda, Maryland

Purpose: To discuss the Sandia LOCA test facility performance

Discussion:

Figure 1 was distributed during the meeting and discussed. It was agreed that Sandia should be allowed to proceed with conclusion of the BF 3 connector test with the following understanding:

1. As previously agreed, the comparison between the Wyle and Sandia test profiles were made using the data taken by Sandia inside the empty connector box. Since the Wyle data only included a test chamber temperature it must be assumed that the temperature profile inside an empty connector box in the Wyle test chamber would follow closely their temperature profile in the chamber.
2. It was agreed by those present that the Sandia profile obtained on June 4 was an adequate representation of the Wyle test profile, and that we should proceed with the steam portion of the BF 3 connector tests. However, it was understood that Sandia would attempt to modify their test procedure to reduce the first overshoot which was about 8°C in the June 4 Sandia profile. Figure 2 shows the temperature profile at a location inside the test chamber (outside of the connector box) in a position comparable to where it was measured in the Wyle test. Although this Sandia profile does follow the Wyle (actual) profile more closely, it is probably not as true a representation of what environment the connectors will be exposed to as the profile in the connector box. Subsequent to the review group meeting, Sandia conducted an additional test on June 7, 1979, in which they were able to more closely reproduce the Wyle test data. This data is shown in Figure 3. Please note that the Wyle reference temperature profile shown in Figure 3 is correct and that there is a 25°C error in the early portion of the Wyle reference profiles in Figures 1 and 2. An error band of +8°C and -4°C was considered reasonable for the connector test. It was also agreed that the Wyle (actual) pressure profile should be followed. The tolerance suggested by Sandia for the pressure profile is ± 5 psi.
3. Sandia will conduct a trial test without connectors prior to the actual test to demonstrate that the actual profile will be at least as close to the Wyle profile as the attached profile (Figure 1). The test will be conducted using a written and approved procedure that is intended to be identical to the one used for the actual test. The test procedures will include all pretest checks as well as the sequencing of valves, reference times and temperatures.
4. Sandia will also document prior to the test the acceptance criteria. It is understood that the acceptance criteria as established by TVA and Wyle for the Wyle test and accepted by NRC will be used.

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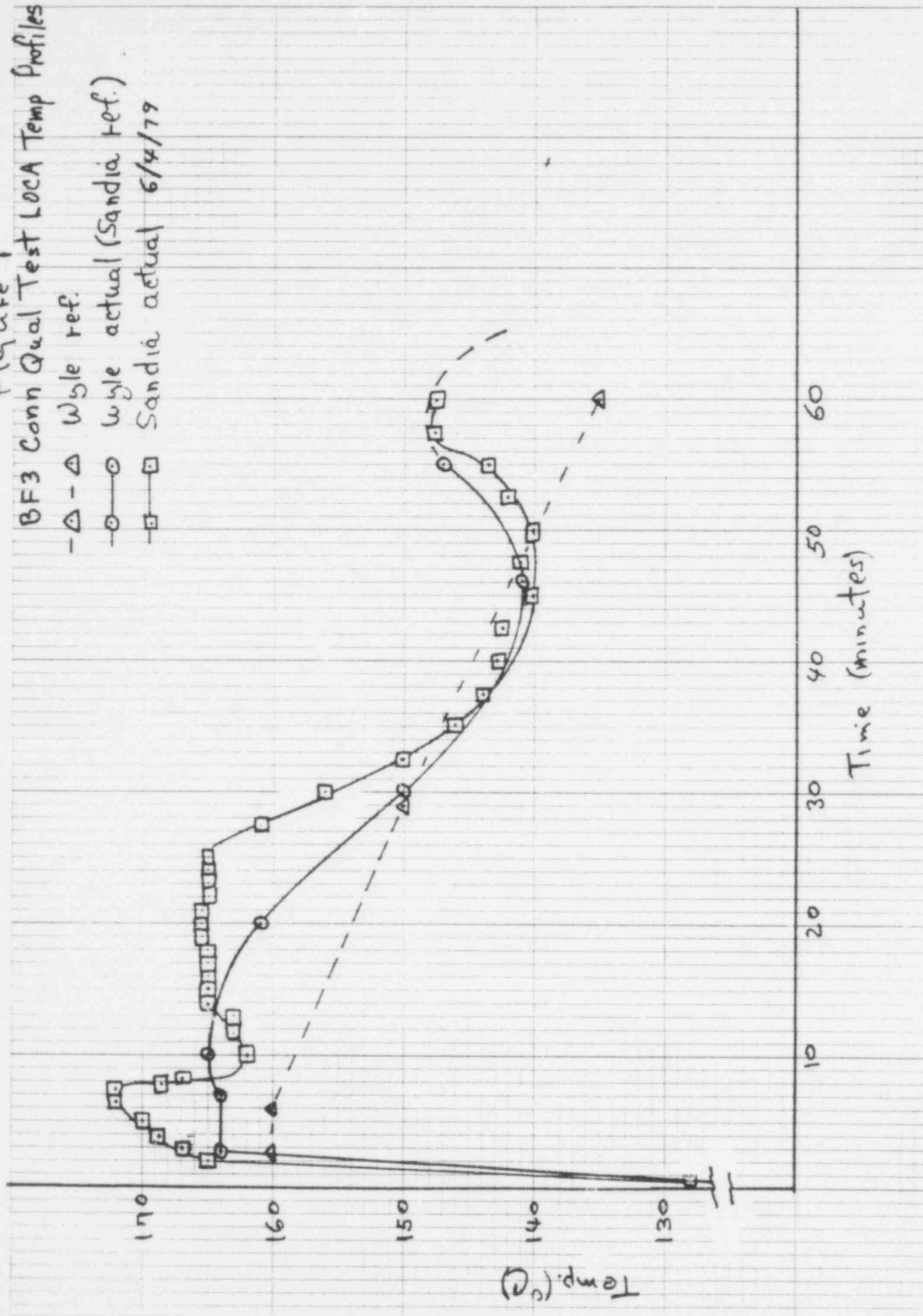
ATTENDEES

A. J. Szukiewicz	ICSB/DSS
D. F. Sullivan	RSSB/OSD
M. Chiramal	PSB/DOR
E. Butcher	PSB/DOR
J. A. Zwolinski	CSB/DSS
C. A. Heit	PSB/DOR

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Figure 1
 BF3 Conn Qual Test LOCA Temp Profiles

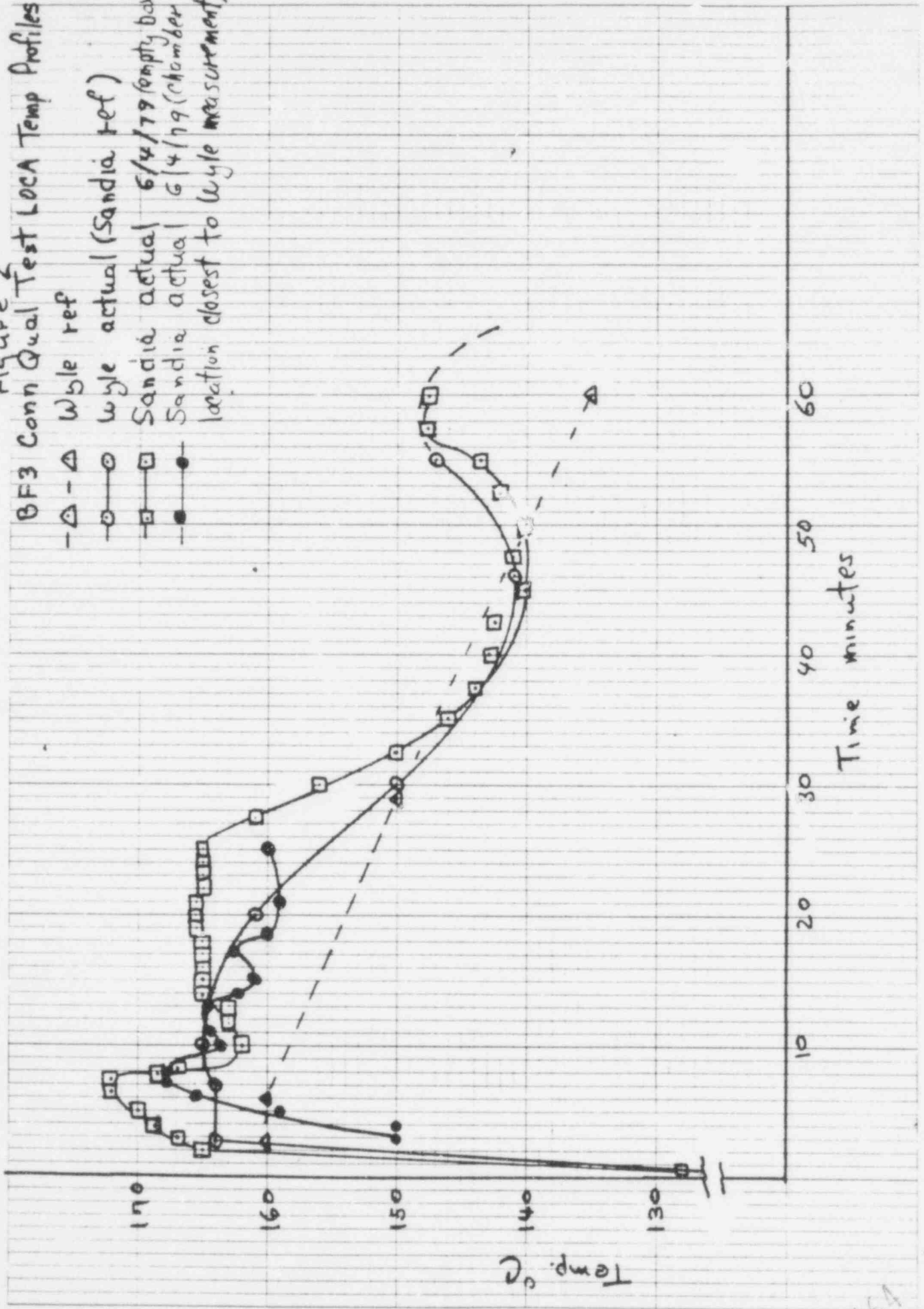
- △-△ Wyle ref.
- Wyle actual (Sandia ref.)
- Sandia actual 6/4/79



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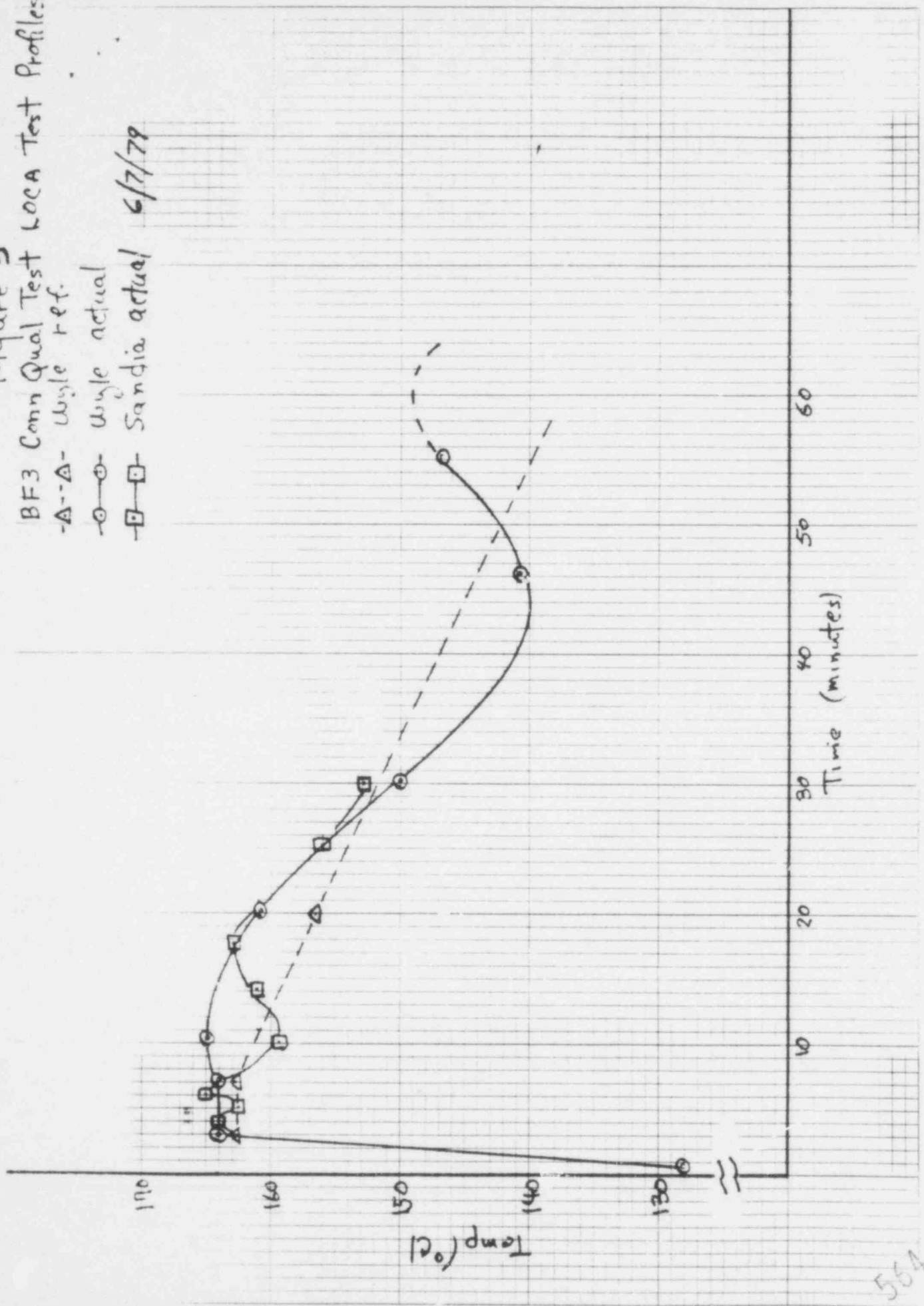
Figure 2
BF3 Conn Qual Test LOCA Temp Profiles

- △-△ Wyle ref
- Wyle actual (Sandia ref)
- Sandia actual 6/4/79 (empty box)
- Sandia actual 6/4/79 (chamber location closest to Wyle measurement)



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Figure 3
 BF3 Conn Qual Test LOCA Test Profiles
 -A-Δ- Wyle Ref.
 -O- Wyle actual
 -□- Sandia actual 6/7/79



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