June 6, 1984

Docket Nos. 50-259/260/296 DISTRIBUTION Docket File NRC PDR Mr. Hugh G. Parris Local PDR ORB#2 Rdg. Manager of Power **DEisenhut** SNorris Tennessee Valley Authority WLong **RClark** 500A Chestnut Street, Tower II OELD JTaylor Chattanooga, Tennessee 37401 ELJordan NSIC ACRS(10) Gray File

Dear Mr. Parris:

Subject: Implementation of NUREG-0619, BWR Feedwater and CRD Nozzle Cracking

Re: Browns Ferry Nuclear Plant, Units 1, 2 and 3

We have completed our review of your submittals of July 1, 1983 and August 17, 1983 on the above subject based on NUREG-0619 and the recommendations of NEDE-21821A. The enclosed Safety Evaluation documents the staff's review.

We conclude that the newly-installed triple-sleeve spargers are effective in protecting the feedwater nozzles against high frequency thermal cycles and that rerouting of the reactor water cleanup system and installation of the feedwater low-flow controller is not required. We note that you have committed to complete installation of a leak detection system to monitor thermal-sleeve bypass leakage on Unit 3 during the current outage and on Unit 2 during the fall 1984 outage.

Your letter of August 17, 1983 proposed an alternative to the dye-penetrant examination interval of NUREG-0619 as discussed in the enclosed Safety Evaluation. We conclude that until more data are available on performance of the triple sleeve spargers, it is premature to approve your alternative at this time. Routine inspections of the feedwater nozzles and spargers should continue at the intervals specified in Table 2 of NUREG-0619.

Sincerely,

Original signed by/

Domenic B. Vassallo, Chief Operating Reactors Branch #2 Division of Licensing

Enclosure: Safety Evaluation

cc w/enclosure:

See next page B406200093 B40606 PDR ADDCK 05000259 PDR DL:0RB#2 SNOFF1S:ajs WLong W 06/5/84 06/5784 06/6784 06/6784

|                                  | e e (* , , , , , , , , , , , , , , , , , ,  | and the second s |
|----------------------------------|---|--|
| • <b>(</b> * • • ) • • • • • • • | · ## 1 · · · · ·  |  |
| 13                               | د <sup>رو</sup> <sup>1</sup> <sup>4</sup> ( ,  ,  ,  ,  ,  ,  ,  ,  ,  ,  ,  ,  , | ີ່ນີ້ ເອັ <b>ພ</b> າກັ່ງ ມີຢິ່ນ ໂ  |
| * agrant *                       | ۵<br>بر ۲۰۰۰  | ا م <sup>ن</sup> ام من جد بنا<br>اس من جد ا  |
| м <sup>а</sup> ф                 | 13  |  |
|                                  | an a  | A A A A A A A A A A A A A A A A A A A  |
|                                  |   | and the second   |
| <b>N 1 1 1 1 1</b>               | 1   |  |
| . ,                              | , , , , , , , , , , , , , , , , , , ,   |  |

and president the second performance of the

The second state of the second s

٣ الله الم الم المراجعة التي الم المراجعة التي المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة ا 14 - المراجع المراجعة 14 - المراجعة 14 - المراجعة 14 - المراجعة المراجع 14 - المراجعة 14 - المراجعة 14 - مراجعة المراجعة المراجع 14 - مراجعة المراجعة الم مراجعة المراجعة الم مراجعة المراجعة المرا

۲۰ مرد الجاري المراجع المرد الم المرد الم المرد الم المرد الم المرد الم المرد الم المرد الم

157 (g. 367 - 16)

з + <sup>1</sup> У. м.,

n 1976 - Fright Martin State 1976 - State State 1976 - State State State

18 g (\* 19

`• • ,

селения — <sup>18</sup> с. у. 1976 — 1

1.5. 1.53

भ भ ।

, <u>s</u> "#

AT NO DE