

Enclosure 3

Edwin I. Hatch Nuclear Plant - Unit 2
Request to Revise Technical Specifications
for Traversing Incore Probe (TIP) Operability Requirements

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INSTRUMENTATION

TRAVERSING INCORE PROBE SYSTEM

LIMITING CONDITION FOR OPERATION

3.3.6.6 The traversing incore probe system shall be OPERABLE with:

- a. Four movable detectors, drives, and readout equipment to map the core, and
- b. Indexing equipment to allow all required detectors to be normalized in a common location.

APPLICABILITY:

When the traversing incore probe is used for:

- a. Recalibration of the LPRM detectors and
- b. Monitoring the APLHGR, LHGR, or MCPR.

ACTION:

- a. With one or more TIP measurement locations inoperable, required measurements may be performed as described in 1 or 2 below.
 1. TIP data for an inoperable measurement location may be replaced by data obtained from that string's redundant (symmetric) counterpart if the substitute TIP data were obtained from an operable measurement location and the control rod pattern is octant symmetric, provided the total TIP uncertainty for the present cycle has been measured to be less than 8.7 percent.
 2. TIP data for an inoperable measurement location may be replaced by data obtained from the on-line core monitoring system (process computer) normalized with available operating measurements, provided the total number of simulated channels (measurement locations) does not exceed eight.
- b. Otherwise, with the TIP system inoperable, suspend use of the system for the above applicable monitoring or calibration functions.
- c. The provisions of Specifications 3.0.3 and 3.0.4 are not applicable.

INSTRUMENTATION

TRAVERSING INCORE PROBE SYSTEM

LIMITING CONDITION FOR OPERATION

SURVEILLANCE REQUIREMENTS

4.3.6.6 The traversing incore probe system shall be demonstrated OPERABLE by normalizing each of the above required detector outputs prior to or during use when required for the above applicable monitoring or calibration functions, if not performed within the previous 31 EFPD.

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INSTRUMENTATION

BASES

MONITORING INSTRUMENTATION (Continued)

3/4.3.6.4 POST-ACCIDENT MONITORING INSTRUMENTATION

The OPERABILITY of the post-accident monitoring instrumentation ensures that sufficient information is available on selected plant parameters to monitor and assess important variable following an accident.

3/4.3.6.5 SOURCE RANGE MONITORS

The source range monitors provide the operator with information on the status of the neutron level in the core at very low power levels during startup. At these power levels, reactivity additions should not be made without this flux level information available to the operator. When the intermediate range monitors are on scale adequate information is available without the SRMs and they can be retracted.

3/4.3.6.6 TRAVERSING INCORE PROBE SYSTEM

The OPERABILITY of the traversing incore probe system with the specified minimum complement of equipment ensures that the measurements obtained from use of this equipment accurately represent the spatial neutron flux distribution in the reactor core.

The specification allows use of substituted TIP data from symmetric channels, adjusted by the plant computer to remove machine and power level dependent biases, if the control rod pattern is symmetric. The source of substituted data may also be calculations performed by the on-line computer core monitoring system which are normalized to available real data. Symmetry is not required for substitution of calculated readings.

3/4.3.6.7 MCRECS ACTUATION INSTRUMENTATION

The OPERABILITY of the MCRECS ensures the necessary protective actions will be automatically initiated to provide protection for control room personnel.

3/4.3.6.8 (Deleted)

INSTRUMENTATION

TRAVERSING INCORE PROBE SYSTEM

LIMITING CONDITION FOR OPERATION

3.3.6.6. The traversing incore probe system shall be OPERABLE with:

- a. Four ~~movable~~ detectors, drives and readout equipment to map the core, and
- b. Indexing equipment to allow all ~~four~~ detectors to be normalized in a common location. *required*

APPLICABILITY:

When the traversing incore probe is used for:

- a. Recalibration of the LPRM detectors and
- b. Monitoring the APLHGR, LHGR, or MCPR

ACTION:

replace with paragraphs from next page
~~With the traversing incore probe system inoperable preventing normalization of the TIP detectors, do not use the system for the above applicable monitoring or calibration functions for more than 31 EFPD following the last normalization. The provisions of Specifications 3.0.3 and 3.0.4 are not applicable.~~

SURVEILLANCE REQUIREMENTS

4.3.6.6. The traversing incore probe system shall be demonstrated OPERABLE by normalizing each of the above required detector outputs prior to or during use when required for the above applicable monitoring or calibration functions, if not performed within the previous 31 EFPD.

~~*Operability requirements can be met with three movable detectors until the end of Cycle 10.~~

- a. With one or more TIP measurement locations inoperable, required measurements may be performed as described in 1 or 2 below.
 - 1. TIP data for an inoperable measurement location may be replaced by data obtained from that string's redundant (symmetric) counterpart if the substitute TIP data were obtained from an operable measurement location and the control rod pattern is octant symmetric, provided the total TIP uncertainty for the present cycle has been measured to be less than 8.7 percent.
 - 2. TIP data for an inoperable measurement location may be replaced by data obtained from the on-line core monitoring system (process computer) normalized with available operating measurements, provided the total number of simulated channels (measurement locations) does not exceed eight.
- b. Otherwise, with the TIP system inoperable, suspend use of the system for the above applicable monitoring or calibration functions.
- c. The provisions of Specifications 3.0.3 and 3.0.4 are not applicable.

*Add as the ACTION statement
for specification 3.3.6.6*

INSTRUMENTATION

BASES

MONITORING INSTRUMENTATION (Continued)

3/4.3.6.4 POST-ACCIDENT MONITORING INSTRUMENTATION

The OPERABILITY of the post-accident monitoring instrumentation ensures that sufficient information is available on selected plant parameters to monitor and assess important variable following an accident.

3/4.3.6.5 SOURCE RANGE MONITORS

The source range monitors provide the operator with information on the status of the neutron level in the core at very low power levels during startup. At these power levels, reactivity additions should not be made without this flux level information available to the operator. When the intermediate range monitors are on scale adequate information is available without the SRMs and they can be retracted.

3/4.3.6.6 TRAVERSING INCORE PROBE SYSTEM

The OPERABILITY of the traversing incore probe system with the specified minimum complement of equipment ensures that the measurements obtained from use of this equipment accurately represent the spatial neutron flux distribution of the reactor core. The OPERABILITY of this system is demonstrated by irradiating each detector to be used and normalizing their respective outputs.

En replica with paragraph from next page.

3/4.3.6.7 MCRECS ACTUATION INSTRUMENTATION

The OPERABILITY of the MCRECS ensures the necessary protective actions will be automatically initiated to provide protection for control room personnel.

3/4.3.6.8 (Deleted)

The OPERABILITY of the traversing incore probe system with the specified minimum complement of equipment ensures that the measurements obtained from use of this equipment accurately represent the spatial neutron flux distribution in the reactor core.

The specification allows use of substituted TIP data from symmetric channels, adjusted by the plant computer to remove machine and power level dependent biases, if the control rod pattern is symmetric. The source of substituted data may also be calculations performed by the on-line computer core monitoring system which are normalized to available real data. Symmetry is not required for substitution of calculated readings.

add to BASES of specification 3/4.3.6.6