

LIMITING CONDITIONS FOR OPERATION

SURVEILLANCE REQUIREMENTS

3.5.B (Cont'd.)

1. From and after the date that any RHR Service Water booster pump is made or found to be inoperable for any reason, continued reactor operation is permissible only during the succeeding thirty days, unless such pump is sooner made operable, provided that during such thirty days the remaining active components that affect operability of the RHR Service Water subsystem containing the inoperable pump, and all active components that affect operability of the operable RHR Service Water subsystem are operable.
3. From and after the date that one RHR Service Water subsystem is made or found to be inoperable for any reason, continued reactor operation is permissible only during the succeeding seven days unless such subsystem is sooner made operable, provided that all active components that affect operability of the operable RHR Service Water subsystem, its associated LPCI subsystem, and its associated diesel generator are operable.
4. If the requirements of 3.5.B.1, 3.5.B.2 or 3.5.B.3 cannot be met, an orderly shutdown shall be initiated and the reactor shall be in a cold shutdown condition within 24 hours.

C. HPCI System

1. The HPCI System shall be operable whenever there is irradiated fuel in the reactor vessel, reactor pressure is greater than 150 psig, and prior to reactor startup from a Cold Condition, except as specified in 3.5.C.2 and 3.5.C.3 below.

150

4.5.B (Cont'd.)

2. When it is determined that any RHR Service Water booster pump is inoperable, the remaining active components that affect operability of the RHR Service Water subsystem containing the inoperable pump, and all active components that affect operability of the operable RHR Service Water subsystem shall be verified to be operable immediately and weekly thereafter.
3. When one RHR Service Water subsystem becomes inoperable, the operable RHR Service Water subsystem and its associated LPCI subsystem shall be verified to be operable immediately and daily thereafter.

C. HPCI System

1. HPCI System testing shall be performed as follows:

<u>Item</u>	<u>Frequency</u>
a. Simulated Automatic Actuation Test	Once/operating Cycle
b. Pump Operability	Once/month
c. Motor Operated Valve Operability	Once/month

LIMITING CONDITIONS FOR OPERATION

SURVEILLANCE REQUIREMENT

3.5.C HPCI System (cont'd.)

2. From and after the date that the HPCI System is made or found to be inoperable for any reason, continued reactor operation is permissible only during the succeeding seven days unless such system is sooner made operable, providing that during such seven days all active components that affect operability of the ADS, the RCIC System, both LPCI subsystems and both Core Spray subsystems are operable.
3. With the surveillance requirements of 4.5.C not performed at the required intervals due to reactor shutdown, a reactor startup may be conducted provided the appropriate surveillance is performed within 48 hours of achieving 150 psig reactor steam pressure.
4. If the requirements of 3.5.C.1 cannot be met, an orderly shutdown shall be initiated and the reactor pressure shall be reduced to ~~113~~ 150 psig or less within 24 hours.

150

D. Reactor Core Isolation Cooling (RCIC) System

1. The RCIC System shall be operable whenever there is irradiated fuel in the reactor vessel, the reactor pressure is greater than 113 psig, and prior to reactor startup from a Cold Condition, except as specified in 3.5.D.2 and 3.5.D.3 below.

4.5.C. HPCI System (cont'd.)

- | <u>Item</u> | <u>Frequency</u> |
|--|----------------------|
| d. Flow Rate at approximately 1000 psig Steam Press. | Once/3 months |
| e. Flow Rate at approximately 150 psig Steam Press. | Once/operating cycle |
- The HPCI pump shall be demonstrated to be capable of delivering at least 4250 gpm for a system head corresponding to a reactor pressure of 1000 to 150 psig.
2. When it is determined that the HPCI System is inoperable, the RCIC System, both LPCI subsystems, and both Core Spray subsystems shall be verified to be operable immediately. The RCIC System shall be verified to be operable daily thereafter. In addition, the ADS logic shall be demonstrated to be operable immediately and daily thereafter.

D. Reactor Core Isolation Cooling (RCIC) System

1. RCIC System testing shall be performed as follows:

- | <u>Item</u> | <u>Frequency</u> |
|---------------------------------------|----------------------|
| a. Simulated Automatic Actuation Test | Once/operating cycle |

APPENDIX "B"

LIMITING CONDITIONS FOR OPERATION

3.5.B. (Cont'd.)

2. From and after the date that any RHR Service Water booster pump is made or found to be inoperable for any reason, continued reactor operation is permissible only during the succeeding thirty days, unless such pump is sooner made operable, provided that during such thirty days the remaining active components that affect operability of the RHR Service Water subsystem containing the inoperable pump, and all active components that affect operability of the operable RHR Service Water subsystem are operable.
3. From and after the date that one RHR Service Water subsystem is made or found to be inoperable for any reason, continued reactor operation is permissible only during the succeeding seven days unless such subsystem is sooner made operable, provided that all active components that affect operability of the operable RHR Service Water subsystem, its associated LPCI subsystem, and its associated diesel generator are operable.
4. If the requirements of 3.5.B.1, 3.5.B.2 or 3.5.B.3 cannot be met, an orderly shutdown shall be initiated and the reactor shall be in a cold shutdown condition within 24 hours.

C. HPCI System

1. The HPCI System shall be operable whenever there is irradiated fuel in the reactor vessel, reactor pressure is greater than 150 psig, and prior to reactor startup from a Cold Condition, except as specified in 3.5.C.2 and 3.5.C.3 below.

SURVEILLANCE REQUIREMENTS

4.5.B (Cont'd.)

2. When it is determined that any RHR Service Water booster pump is inoperable, the remaining active components that affect operability of the RHR Service Water subsystem containing the inoperable pump, and all active components that affect operability of the operable RHR Service Water subsystem shall be verified to be operable immediately and weekly thereafter.
3. When one RHR Service Water subsystem becomes inoperable, the operable RHR Service Water subsystem and its associated LPCI subsystem shall be verified to be operable immediately and daily thereafter.

C. HPCI System

1. HPCI System testing shall be performed as follows:

<u>Item</u>	<u>Frequency</u>
a. Simulated Automatic Actuation Test	Once/operating Cycle
b. Pump Operability	Once/month
c. Motor Operated Valve Operability	Once/month

LIMITING CONDITIONS FOR OPERATION

3.5.C HPCI System (cont'd.)

2. From and after the date that the HPCI System is made or found to be inoperable for any reason, continued reactor operation is permissible only during the succeeding seven days unless such system is sooner made operable, providing that during such seven days all active components that affect operability of the ADS, the RCIC System, both LPCI subsystems and both Core Spray subsystems are operable.
3. With the surveillance requirements of 4.5.C not performed at the required intervals due to reactor shutdown, a reactor startup may be conducted provided the appropriate surveillance is performed within 48 hours of achieving 150 psig reactor steam pressure.
4. If the requirements of 3.5.C.1 cannot be met, an orderly shutdown shall be initiated and the reactor pressure shall be reduced to 150 psig or less within 24 hours.

D. Reactor Core Isolation Cooling (RCIC) System

1. The RCIC System shall be operable whenever there is irradiated fuel in the reactor vessel, the reactor pressure is greater than 113 psig, and prior to reactor startup from a Cold Condition, except as specified in 3.5.D.2 and 3.5.D.3 below.

SURVEILLANCE REQUIREMENT

4.5.C. HPCI System (cont'd.)

- | <u>Item</u> | <u>Frequency</u> |
|--|----------------------|
| d. Flow Rate at approximately 1000 psig Steam Press. | Once/3 months |
| e. Flow Rate at approximately 150 psig Steam Press. | Once/operating cycle |
- The HPCI pump shall be demonstrated to be capable of delivering at least 4250 gpm for a system head corresponding to a reactor pressure of 1000 to 150 psig.
2. When it is determined that the HPCI System is inoperable, the RCIC System, both LPCI subsystems, and both Core Spray subsystems shall be verified to be operable immediately. The RCIC System shall be verified to be operable daily thereafter. In addition, the ADS logic shall be demonstrated to be operable immediately and daily thereafter.

D. Reactor Core Isolation Cooling (RCIC) System

1. RCIC System testing shall be performed as follows:

- | <u>Item</u> | <u>Frequency</u> |
|---------------------------------------|----------------------|
| a. Simulated Automatic Actuation Test | Once/operating cycle |