

Procure and Form Change Request

(Sheet 1 of 1)

Section 1 Change Initiation

Document Number: SP 21136 Revision No. 9 Change No. 15

Document Title: Safety Injection and CTMT Spary System Valves Operational Readiness Test

Initiated By: R. T. Blanchard Date: 5/8/96

Reason for Change: **One Time Change?** YES ☐ NO ☒ Change number is not applicable for one-time changes

To include instructions that will maintain the containment sump suction piping full.

Section 2 Non-Intent Change Approval

Section 2a. Approval of SORC Member or First Line Supervisor or Above

Signature: N/A Date: N/A

Interim Approval

Section 2b. Shift Supervisor Approval

Signature: N/A Non-Intent change logged Date: N/A

Upon completion of this section, change is effective on an interim basis pending final approval or cancellation not more than 14 days from signature date above.

Section 3 Instructions for Entering Change

Remove existing page 3 and 53 through 566 and replace with the attached page 3 and 53 through 566.

Section 4 Intent Change Review

Qualified Reviewer (may not be change initiator)
Signature: H. Beeman

QAS Signature
(if required) _____

Section 5 Department Head Review

Is specific unreviewed safety question evaluation required? YES ☐ NO ☒

Is environmental review required? YES ☐ NO ☒

Is specific safety evaluation required? YES ☐ NO ☒

Signature: John W. Hiley Date: 5/21/96

Section 6 APPROVAL

SORC or PORC Chairman Signature: [Signature]

Meeting Number: 2-96-137 Approval Date: 5/24/96

Non-Intent or Intent
Effective Date: 5/28/96

STOP THINK ACT REVIEW

DC 1 Attachment 6

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7.20 Part Stroke Testing (OPEN) the Containment Sump Outlet Check Valve 2-CS-15A and Verifying CTMT Sump Suction Piping is Full (Eng. Form 21136-1E)

7.20.1 CHECK closed the following valves:

- "A' SIS Suction Header Test Connection," 2-CS-16A
- "A' SIS Suction Header Vent," 2-CS-059

7.20.2 REMOVE the pipe caps from the piping downstream of the following valves:

- "A' SIS Suction Header Test Connection," 2-CS-16A
- "A' SIS Suction Header Vent," 2-CS-059

7.20.3 VERIFY the piping between "Containment Sump Header 'A' Check," 2-CS-15A and "Containment Sump Header 'A' Isolation," 2-CS-16.1A is filled as follows:

- a. STATION an operator, in communication with the Control Room, in the -25 west piping penetration room.
- b. CONNECT hose downstream of "A' SIS Suction Header Test Connection," 2-CS-16A.
- c. DIRECT hose to "A" ESF room sump or suitable 10 gallon radioactive liquid container.
- d. OPEN "A' SIS Suction Header Test Connection," 2-CS-16A and OBSERVE water flow.
- e. IF a steady stream of water issued from "A' SIS Suction Header Test Connection," 2-CS-16A, Go To Step 7.20.12.

7.20.4 Refer To Sketch 1 (Page 546) and CONNECT a small diameter tygon hose to the vent line downstream of "A' SIS Suction Header Vent," 2-CS-059.

7.20.5 Refer To Sketch 1 (Page 546) and INSERT the free end of the tube connected to the vent line downstream of "A' SIS Suction Header Vent," 2-CS-059 into vent line downstream of "A' SIS Suction Header Test Connection," 2-CS-16A.

7.20.6 OPEN "A' SIS Suction Header Test Connection," 2-CS-16A.

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- 7.20.7 OPEN "A' SIS Suction Header Vent," 2-CS-059.
- 7.20.8 ALLOW flow to continue until the piping is full, as indicated by water issuing from "A' SIS Suction Header Test Connection," 2-CS-16A.
- 7.20.9 CLOSE "A' SIS Suction Header Vent," 2-CS-059
- 7.20.10 REMOVE the small diameter tygon hose from the vent line downstream of "A' SIS Suction Header Test Connection," 2-CS-16A.
- 7.20.11 CLOSE "A' SIS Suction Header Test Connection," 2-CS-16A.
- 7.20.12 Refer To Sketch 2 (Page 54) and PERFORM the following:
- a. CONNECT the suction of a small air or electric driven pump (provided by Unit 2 Technical Support) to the vent line downstream of "A' SIS Suction Header Vent," 2-CS-059.
 - b. CONNECT the pump discharge to a paddle wheel flow indicator.
 - c. DIRECT the discharge of the paddle wheel flow indicator to a suitable container or drain.
 - d. FLUSH AND VENT the air from the hoses, pump and paddle wheel flow indicator by opening "A' SIS Suction Header Vent," 2-CS-059 and operating the pump as necessary.
 - e. CONNECT the outlet of the paddle wheel flow indicator to "A' SIS Suction Header Test Connection," 2-CS-16A.
- 7.20.13 OPEN "A' SIS Suction Header Vent," 2-CS-059 and "A' SIS Suction Header Test Connection," 2-CS-16A.
- 7.20.14 START the pump and observe the paddle wheel flow indicator.
- 7.20.15 IF no flow is observed through the paddle wheel flow indicator, Go To step 7.20.31.
- 7.20.16 VERIFY "Containment Sump Header 'A' Check," 2-CS-15A part-stroked open by verifying flow through the paddle wheel flow indicator for a minimum of one minute.
- 7.20.17 WHEN flow through the paddle wheel flow indicator has been seen for a minimum of one minute, PERFORM the following:
- a. RECORD completion on Eng. Form 21136-1E.
 - b. STOP the pump.

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- 7.20.18 RECORD containment sump level from C06 (LI-9155) or PPC (L9155) on Eng. Form 21136-1E.
- 7.20.19 IF unit is in Modes 1 through 4, LOG entry into the following Technical Specification ACTION statements in SM Log Book:
- 3.5.2, ACTION a (ECCS)
 - 3.6.1.1 (Containment Integrity)
- 7.20.20 CYCLE "A' Containment Sump Suction Header Isolation," 2-CS-16.1A.
- 7.20.21 MONITOR containment sump level from C06 (LI-9155) or PPC (L9155) until a 1% change is seen in containment sump level.
- 7.20.22 IF containment sump level does not change by at least 1% within 15 minutes, PERFORM the following:
- a. RECORD containment sump level from C06 (LI-9155) or PPC (L9155) on Eng. Form 21136-1E.
 - b. RECORD in comments section of Eng. Form 21136-1E that required sump level change was not observed.
 - c. REPEAT steps 7.20.20 through 7.20.21.
 - d. NOTIFY the IST Coordinator that the containment sump suction piping did not overflow when cycling "A' Containment Sump Suction Header Isolation," 2-CS-16.1A.
- 7.20.23 IF after performing step 7.20.22.c. containment sump level does not change by at least 1% within 15 minutes, PERFORM the following:
- a. RECORD containment sump level from C06 (LI-9155) or PPC (L9155) on Eng. Form 21136-1E.
 - b. RECORD in comments section of Eng. Form 21136-1E that required sump level change was not observed after two attempts.
 - c. OPEN "CTMT SUMP ISOL VLV, CS-16.1A" (C01)
 - d. OBSERVE containment sump level rises 1% greater than level recorded in step 7.20.23.a.
 - e. CLOSE "CTMT SUMP ISOL VLV, CS-16.1A"

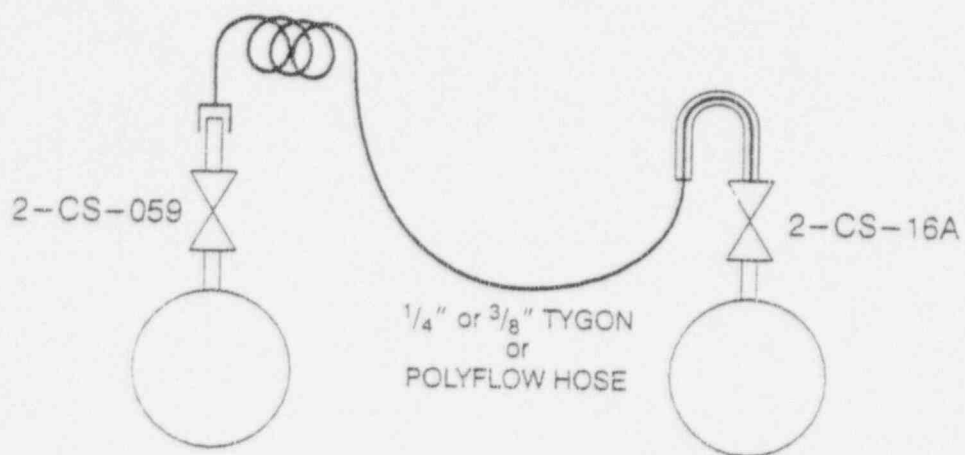
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- 7.20.24 CLOSE "A' SIS Suction Header Test Connection," 2-CS-16A.
- 7.20.25 CLOSE "A' SIS Suction Header Vent," 2-CS-059
- 7.20.26 After 15 minutes, RECORD containment sump level from C06 (LI-9155) or PPC (L9155) on Eng. Form 21136-1E.
- 7.20.27 IF steps 7.20.22 and/or 7.20.23 were not used, RECORD "N/A" in the appropriate blocks on Eng. Form 21136-1E.
- 7.20.28 REMOVE the pump and paddle wheel flow indicator from the piping downstream of "A' SIS Suction Header Vent," 2-CS-059 and "A' SIS Suction Header Test Connection," 2-CS-16A.
- 7.20.29 INSTALL the pipe caps on the piping downstream of "A' SIS Suction Header Vent," 2-CS-059 and "A' SIS Suction Header Test Connection," 2-CS-16A.
- 7.20.30 DRAIN and STORE the pump, paddle wheel flow indicator and connecting hoses.
- 7.20.31 IF no flow is observed through the paddle wheel flow indicator, PERFORM the following:
- a. Immediately NOTIFY the SM and Programs Group Supervisor that Emergency Core Cooling System, Train A is INOPERABLE.
 - b. SUBMIT ACR and RECORD ACR number in Comments section of Eng. Form 21136-1E.
 - c. NOTIFY the IST Coordinator
 - d. SUBMIT TR to Maintenance
- 7.20.32 WHEN testing is complete, LOG out of all applicable Technical Specification ACTION Statements entered during performance of this surveillance, in the SM Log Book.

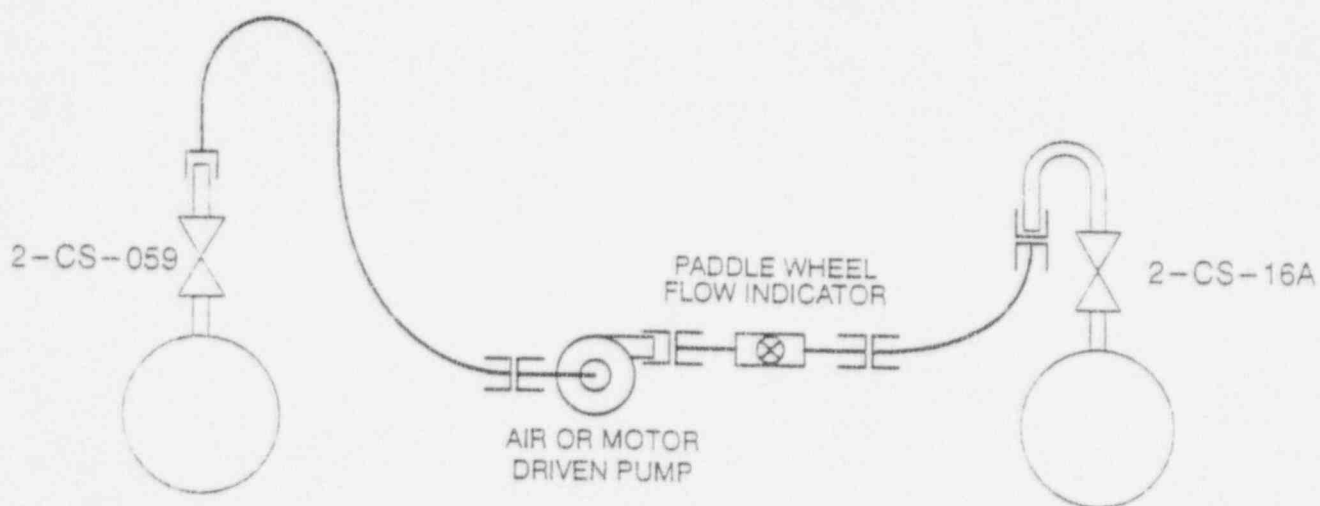
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SKETCH 1



SKETCH 2

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7.21 Part Stroke Testing (OPEN) the Containment Sump Outlet Check Valve 2-CS-15B and Verifying CTMT Sump Suction Piping is Full (Eng. Form 21136-1F)

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7.21.1 CHECK closed the following valves:

- "'B' SIS Suction Header Test Connection," 2-CS-16B
- "SIS Suction 'B' Header Vent," 2-CS-060

7.21.2 REMOVE the pipe caps from the piping downstream of the following valves:

- "'B' SIS Suction Header Test Connection," 2-CS-16B
- "SIS Suction 'B' Header Vent," 2-CS-060

7.21.3 VERIFY" the piping between Containment Sump Header 'B' Check," 2-CS-15B and "Containment Sump Header 'B' Isolation," 2-CS-16.1B is filled as follows:

- a. STATION an operator, in communication with the Control Room, in the -25 west piping penetration room.
- b. CONNECT hose downstream of "'B' SIS Suction Header Test Connection," 2-CS-16B.
- c. DIRECT hose to "B" ESF room sump or suitable 10 gallon radioactive liquid container.
- d. OPEN "'B' SIS Suction Header Test Connection," 2-CS-16B and OBSERVE water flow.
- e. IF a steady stream of water issued from "'B' SIS Suction Header Test Connection," 2-CS-16B, Go To Step 7.21.12.

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7.21.4 Refer To Sketch 3 (Page 56e) and CONNECT a small diameter tygon hose to the vent line downstream of "SIS Suction 'B' Header Vent," 2-CS-060.

7.21.5 Refer To Sketch 3 (Page 56e) and INSERT the free end of the tube connected to the vent line downstream of "SIS Suction 'B' Header Vent," 2-CS-060 into vent line downstream of "'B' SIS Suction Header Test Connection," 2-CS-16B.

7.21.6 OPEN "'B' SIS Suction Header Test Connection," 2-CS-16B.

- 7.21.7 OPEN "SIS Suction 'B' Header Vent," 2-CS--060.
- 7.21.8 ALLOW flow to continue until the piping is full, as indicated by water issuing from "'B' SIS Suction Header Test Connection," 2-CS-16B.
- 7.21.9 CLOSE "SIS Suction 'B' Header Vent," 2-CS-060.
- 7.21.10 REMOVE the small diameter tygon hose from the vent line downstream of "'B' SIS Suction Header Test Connection," 2-CS-16B.
- 7.21.11 CLOSE "'B' SIS Suction Header Test Connection," 2-CS-16B.
- 7.21.12 Refer To Sketch 4 (Page 56) and PERFORM the following:
- CONNECT the suction of a small air or electric driven pump (provided by Unit 2 Technical Support) to the vent line downstream of "SIS Suction 'B' Header Vent," 2-CS-060.
 - CONNECT the pump discharge to a paddle wheel flow indicator.
 - DIRECT the discharge of the paddle wheel flow indicator to a suitable container or drain.
 - FLUSH AND VENT the air from the hoses, pump and paddle wheel flow indicator by opening "SIS Suction 'B' Header Vent," 2-CS-060 and operating the pump as necessary.
 - CONNECT the outlet of the paddle wheel flow indicator to "'B' SIS Suction Header Test Connection," 2-CS-16B.
- 7.21.13 OPEN "SIS Suction 'B' Header Vent," 2-CS-060 and "'B' SIS Suction Header Test Connection," 2-CS-16B.
- 7.21.14 START the pump and observe the paddle wheel flow indicator.
- 7.21.15 IF no flow is observed through the paddle wheel flow indicator, Go To step 7.21.31.
- 7.21.16 VERIFY "Containment Sump Header 'B' Check," 2-CS-15B part-stroked open by verifying flow through the paddle wheel flow indicator for a minimum of one minute.
- 7.21.17 WHEN flow through the paddle wheel flow indicator has been seen for a minimum of one minute, PERFORM the following:
- RECORD completion on Eng. Form 21136-1F.
 - STOP the pump.

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- 7.21.18 RECORD containment sump level from C06 (LI-9155) or PPC (L9155) on Eng. Form 21136-1F.
- 7.21.19 IF unit is in Modes 1 through 4, LOG entry into the following Technical Specification ACTION statements in SM Log Book:
- 3.5.2, ACTION a (ECCS)
 - 3.6.1.1 (Containment Integrity)
- 7.21.20 CYCLE "B' Containment Sump Suction Header Isolation," 2-CS-16.1B.
- 7.21.21 MONITOR containment sump level from C06 (LI-9155) or PPC (L9155) until a 1% change is seen in containment sump level.
- 7.21.22 IF containment sump level does not change by at least 1% within 15 minutes, PERFORM the following:
- a. RECORD containment sump level from C06 (LI-9155) or PPC (L9155) on Eng. Form 21136-1F.
 - b. RECORD in comments section of Eng. Form 21136-1F that required sump level change was not observed.
 - c. REPEAT steps 7.21.20 through 7.21.21.
 - d. NOTIFY the IST Coordinator that the containment sump suction piping did not overflow when cycling "B' Containment Sump Suction Header Isolation," 2-CS-16.1B.
- 7.21.23 IF after performing step 7.20.22.c. containment sump level does not change by at least 1% within 15 minutes, PERFORM the following:
- a. RECORD containment sump level from C06 (LI-9155) or PPC (L9155) on Eng. Form 21136-1F.
 - b. RECORD in comments section of Eng. Form 21136-1F that required sump level change was not observed after two attempts.
 - c. OPEN "CTMT SUMP ISOL VLV, CS-16.1B" (C01)
 - d. OBSERVE containment sump level rises 1% greater than level recorded in step 7.21.23.a.
 - e. CLOSE "CTMT SUMP ISOL VLV, CS-16.1B."

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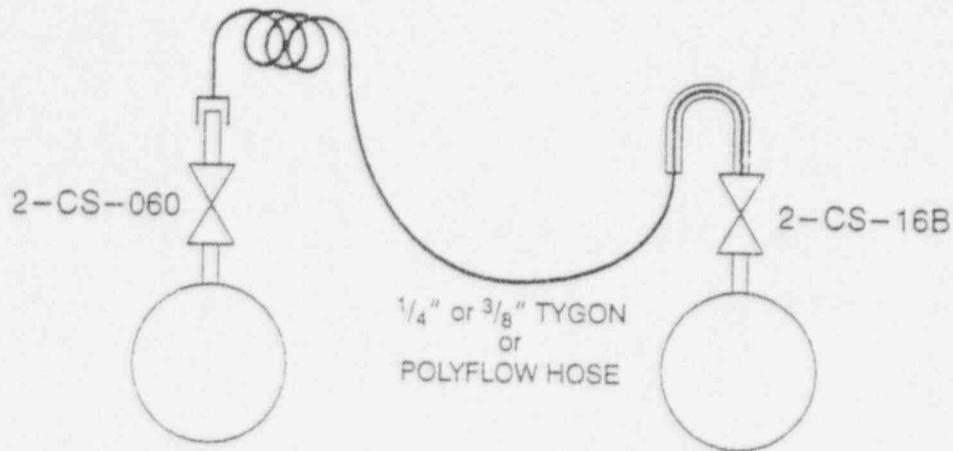
- 7.21.24 CLOSE "'B' SIS Suction Header Test Connection," 2-CS-16B.
- 7.21.25 CLOSE "SIS Suction 'B' Header Vent," 2-CS-060.
- 7.21.26 After 15 minutes, RECORD containment sump level from C06 (LI-9155) or PPC (L9155) on Eng. Form 21136-1F.
- 7.21.27 IF steps 7.21.22 and/or 7.21.23 were not used, RECORD "N/A" in the appropriate blocks on Eng. Form 21136-1F.
- 7.21.28 REMOVE the pump and paddle wheel flow indicator from the piping downstream of "SIS Suction 'B' Header Vent," 2-CS-060 and "'B' SIS Suction Header Test Connection," 2-CS-16B.
- 7.21.29 INSTALL the pipe caps on the piping downstream of "SIS Suction 'B' Header Vent," 2-CS-060 and "'B' SIS Suction Header Test Connection," 2-CS-16B.
- 7.21.30 DRAIN and STORE the pump, paddle wheel flow indicator and connecting hoses.
- 7.21.31 IF no flow is observed through the paddle wheel flow indicator, PERFORM the following:
- a. Immediately NOTIFY the SM and Programs Group Supervisor that Emergency Core Cooling System, Train B is INOPERABLE.
 - b. SUBMIT ACR and RECORD ACR number in Comments section of Eng. Form 21136-1F.
 - c. NOTIFY the IST Coordinator.
 - d. SUBMIT TR to Maintenance.
- 7.21.32 WHEN testing is complete, LOG out of all applicable Technical Specification ACTION Statements entered during performance of this surveillance, in the SM Log Book.

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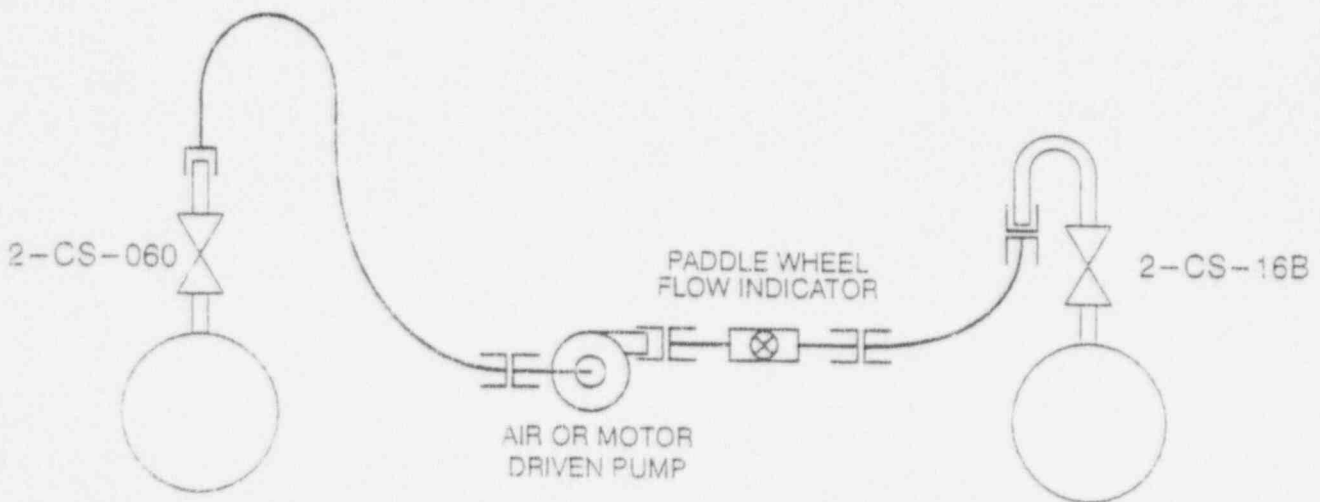
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SKETCH 3



SKETCH 4

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STATION PROCEDURE/FORM CHANGE DISTRIBUTION LIST

PROCEDURE/FORM #	REVISION	CHANGE	EFFECTIVE DATE
<u>21136-1E</u>	<u>6</u>	<u>1</u>	<u>5/29/95</u>
		<u>2</u>	<u>1/22/96</u>
		<u>3</u>	<u>5/10/96</u>
		<u>4</u>	<u>5/28/96</u>
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