INSERVICE TESTING PLAN

REVISION 5

SAN ONOFRE NUCLEAR GENERATING STATION

UNIT 3

SOUTHERN CALIFORNIA EDISON COMPANY

JULY 1985

INSERVICE TESTING PROGRAM
SAN ONOFRE - UNIT 3

REVISION NO. 5

SYSTEM: Main Steam

COMPONENT: HV-8204
HV-8205

CATEGORY: B

CLASS: 2

FUNCTION: Main Steam Isolation Valves.

These valves close on MSIV and CIAS to significantly reduce steam flow from the steam generators.

TEST REQUIREMENT: Part stroke exercise the valves every 3 months.

BASIS FOR REVISION: The part stroke exercise is not practical.

There is no increase in failure rate in any safety system component in an unconservative direction. The degradation resulting from the part stroke testing during operation makes it difficult to maintain the valve open for power operation. The damage and required repairs are an undue burden.

Even had an MSIV failure in an unconservative direction occurred, a single failure has been evaluated and found to be acceptable.

The ASME B&PV Code, Section XI, Paragraph IWV-3412(a) states that the part stroke exercise need not be performed during power operation.

ALTERNATE TESTING: The valve will be full stroke exercised during cold shutdown conditions on a frequency required by ASME, B&PV Code, Section XI, Paragraph IWV-3412(a).

PROGRAM
DOCUMENT
CHANGE

(1) System Valve List, p. 18 of 27: For MSIV's HV-8204 and HV-8205 delete "BTP" from Test column and "OP" from Test Mode Column.

(2) Cold Shutdown Valve Testing Justification Table, p. 9 of 10: For HV-8204 revise justification to the following:

Main steam isolation valve. closing this valve during power operation would result in plant shutdown. Exercising this valve during power operation has been determined to degrade the actuator hydraulic system, causing the valve to fail closed which results in a plant shutdown. This valve will be full stroke exercised during cold shutdown.

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INSERVICE TESTING PROGRAM
ASME-CLASS 1, 2 & 3 VALVES
SAN ONOFRE NUCLEAR GENERATING STATION

UNIT 3

VALVE NUMBER	COORD.	CLASS	VALVE CATEGORY	VALVE SIZE	VALVE TYPE	ACTR. TYPE	NORMAL POSITION	STROKE DIRECTION	TEST	TEST MODE	MAX. STOKE TIME (Sec.)	RELIEF REQUEST	REMARKS
WASTE GAS P & ID # 40135SO3													
HV-7258	H-8	2	A	3"	GA	MO	O	C	AT BT PIT	RR OP RR	40		Notes 3, 6 & 10 & 13
HV-7259	H-8	2	A	3"	GA	AO	O	C	AT FST BT PIT	RR OP OP RR	40		Notes 3 & 10 & 13
NUCLEAR SERVICE WATER P & ID # 40140SO3													
HV-7911	E-5	2	A	3"	GA	AO	O	C	AT BT FST PIT	RR OP OP RR	40		Notes 3, 10 & 11 & 13
3-236-C-675	E-4	2	AC	3"	CK	SA	C	C	AT	RR			Notes 3, 9, 10 & 11 & 13
MAIN STEAM P & ID # 40141SO3													
HV-4053	C-6	2	B	6"	GL	AO	O	C	PIT FST BT	RR OP OP	20		Note 3 & 13
HV-4054	E-6	2	B	6"	GL	AO	O	C	PIT FST BT	RR OP OP	20		Note 3 & 13
HV-4057	B-6	2	B	3/4"	GL	AO	O	C	FST BT PIT	OP OP RR	20		Note 3 & 13
HV-4058	E-6	2	B	3/4"	GL	AO	O	C	FST BT PIT	OP OP RR	20		Note 3 & 13
HV-8204	E-2	2	B	40"	GA	HY	O	C	FST BT PIT	CS CS RR	5	*	Note 3 & 13
HV-8205	E-4	2	B	40"	GA	HY	O	C	FST BT PIT	CS CS RR	5	*	Note 3 & 13

COLD SHUTDOWN VALVE TESTING
JUSTIFICATION TABLE

VALVE NUMBER	COORD.	CLASS	VALVE CAT.	JUSTIFICATION FOR COLD SHUTDOWN TESTING FREQUENCY OF VALVES
	MAIN STEAM P&ID #40143			
HV8204	E-2	2	B	Main steam isolation valve. Closing this valve during power operation would result in plant shutdown. Exercising this valve during power operation has been determined to degrade the actuator hydraulic system, causing the valve to fail closed which results in a plant shutdown. This valve will be full stroke exercised during cold shutdown.
HV8205	F-4	2	B	Same as HV8204
HV8419	H-6	2	B	Atmospheric dump valve. Exercising this valve during power operation could result in a low steam generator pressure indication which would shut the main steam isolation valve and result in a plant shutdown. This valve will be full stroke exercised during cold shutdown.
HV8421	F-5	2	B	Same as HV8419
6-124-C-599	D-7	2	C	Exercising this valve during power operation would result in placing unnecessary thermal stresses on the feedwater piping which could result in premature failure of this piping. This valve will be full stroke exercised during cold shutdown.
6-448-C-599	F-7	2	C	Same as 6-124-C-599