

INSERVICE TESTING PROGRAM FOR  
PUMPS AND VALVES

DUKE POWER COMPANY  
CATAWBA NUCLEAR STATION  
UNIT 1

Docket No. 50-413

Revision #3

8411090319 841106  
PDR ADOCK 05000413  
P PDR

DATA SORTED BY VALVE NAME

DUKE POWER COMPANY  
CATAWBA NUCLEAR STATION  
VALVE INSERVICE TESTING COMMITMENTS

VALVE NAME	ASME CLASS	CATEGORY	PASSIVE	SIZE	VALVE TYPE	ACT	NORM POS.	TEST REQ.	RELF REQS	TEST ALTER	FLOW DIAGRAM	COORDINATES	VALVE TIME	ESF	RESP. PARTY
ICA 64	3	B		4.0	GL	AD	0	RP			CN-1592-11	C-03			PRF
ICA 64	3	B		4.0	GL	AD	0	FS			CN-1592-11	C-03			PRF
ICA 64	3	B		4.0	GL	AD	0	MT			CN-1592-11	C-03	60		PRF
ICA 64	3	B		4.0	GL	AD	0	Q			CN-1592-11	C-03			PRF
ICA 65	2	C		4.0	CK	SA	-	CV	A01	CS	CN-1592-11	D-02			OPS
ICA 66B	2	B		4.0	GA	EL	C	Q			CN-1592-11	F-02			PRF
ICA 66B	2	B		4.0	GA	EL	C	RP			CN-1592-11	F-02			PRF
ICA 66B	2	B		4.0	GA	EL	C	MT			CN-1592-11	F-02	20		PRF
ICA 85B	3	B		6.0	GA	EL	C	Q			CN-1592-10	D-08			PRF
ICA 85B	3	B		6.0	GA	EL	C	MT			CN-1592-10	D-08	10		PRF
ICA 85B	3	B		6.0	GA	EL	C	RP			CN-1592-10	D-08			PRF
ICA116A	3	B		6.0	GA	EL	C	Q			CN-1592-10	D-08			PRF
ICA116A	3	B		6.0	GA	EL	C	RP			CN-1592-10	D-08			PRF
ICA116A	3	B		6.0	GA	EL	C	MT			CN-1592-10	D-08	10		PRF
ICA149	2	B		4.0	GA	P	C	Q			CN-1592-11	G-01		F	PRF
ICA149	2	B		4.0	GA	P	C	RP			CN-1592-11	G-01		F	PRF
ICA149	2	B		4.0	GA	P	C	MT			CN-1592-11	G-01	5	F	PRF
ICA149	2	B		4.0	GA	P	C	FS			CN-1592-11	G-01		F	PRF
ICA150	2	B		4.0	GA	P	C	FS			CN-1592-11	J-07		F	PRF
ICA150	2	B		4.0	GA	P	C	Q			CN-1592-11	J-07		F	PRF
ICA150	2	B		4.0	GA	P	C	RP			CN-1592-11	J-07		F	PRF
ICA150	2	B		4.0	GA	P	C	MT			CN-1592-11	J-07	5	F	PRF
ICA151	2	B		4.0	GA	P	C	FS			CN-1592-11	J-08		F	PRF
ICA151	2	B		4.0	GA	P	C	RP			CN-1592-11	J-08		F	PRF
ICA151	2	B		4.0	GA	P	C	Q			CN-1592-11	J-08		F	PRF
ICA151	2	B		4.0	GA	P	C	MT			CN-1592-11	J-08	5	F	PRF

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DUKE POWER COMPANY  
CATAWBA NUCLEAR STATION  
VALVE INSERVICE TESTING COMMITMENTS

VALVE NAME	ASME CLASS	CATEGORY	PASSIVE	SIZE	VALVE TYPE	ACT	NORM POS.	TEST REQ.	RELF REQS	TEST ALTER	FLOW DIAGRAM	COORDINATES	VALVE TIME	ESF	RESP. PARTY
1CA152	2	B		4.0	GA	P	C	FS			CN-1592-11	F-14		F	PRF
1CA152	2	B		4.0	GA	P	C	Q			CN-1592-11	F-14		F	PRF
1CA152	2	B		4.0	GA	P	C	RP			CN-1592-11	F-14		F	PRF
1CA152	2	B		4.0	GA	P	C	MT			CN-1592-11	F-14	5	F	PRF
1CA171	3	C		6.0	CK	SA	-	CV	A02	RR	CN-1592-10	C-07			O/H
1CA172	3	C		6.0	CK	SA	-	CV	A02	RR	CN-1592-10	C-08			O/H
1CA185	2	B		2.0	GA	AD	O	RP			CN-1592-11	E-03		F	PRF
1CA185	2	B		2.0	GA	AD	O	Q			CN-1592-11	E-03		F	PRF
1CA185	2	B		2.0	GA	AD	O	MT			CN-1592-11	E-03	5	F	PRF
1CA185	2	B		2.0	GA	AD	O	FS			CN-1592-11	E-03		F	PRF
1CA186	2	B		2.0	GA	AD	O	MT			CN-1592-11	I-06	5	F	PRF
1CA186	2	B		2.0	GA	AD	O	FS			CN-1592-11	I-06		F	PRF
1CA186	2	B		2.0	GA	AD	O	Q			CN-1592-11	I-06		F	PRF
1CA186	2	B		2.0	GA	AD	O	RP			CN-1592-11	I-06		F	PRF
1CA187	2	B		2.0	GA	AD	O	RP			CN-1592-11	I-10		F	PRF
1CA187	2	B		2.0	GA	AD	O	FS			CN-1592-11	I-10		F	PRF
1CA187	2	B		2.0	GA	AD	O	Q			CN-1592-11	I-10		F	PRF
1CA187	2	B		2.0	GA	AD	O	MT			CN-1592-11	I-10	5	F	PRF
1CA188	2	B		2.0	GA	AD	O	MT			CN-1592-11	D-14	5	F	PRF
1CA188	2	B		2.0	GA	AD	O	FS			CN-1592-11	D-14		F	PRF
1CA188	2	B		2.0	GA	AD	O	Q			CN-1592-11	D-14		F	PRF
1CA188	2	B		2.0	GA	AD	O	RP			CN-1592-11	D-14		F	PRF
1CF 28	-	B		16.	GA	AD	O	RP			CN-1591-11	J-12		F	PRF
1CF 28	-	B		16.	GA	AD	O	FS	B02	CS	CN-1591-11	J-12		F	PRF
1CF 28	-	B		16.	GA	AD	O	MT	B02	CS	CN-1591-11	J-12	5	F	PRF
1CF 28	-	B		16.	GA	AD	O	Q	B02	CS	CN-1591-11	J-12		F	PRF

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## DATA SORTED BY VALVE NAME

DUKE POWER COMPANY  
CATAMBA NUCLEAR STATION  
VALVE INSERVICE TESTING COMMITMENTS

VALVE NAME	ASME CLASS	CATEGORY	PASSIVE	SIZE	VALVE TYPE	ACT	NORM POS.	TEST REQ.	REL REQ	TEST ALTER	FLOW DIAGRAM	COORDINATES	VALVE TIME	ESF	RESP. PARTY
INC195B	2	A		2.0	GA	EL	C	MT			CN-1553-13	E-07	10	T	PRF
INC195B	2	A		2.0	GA	EL	C	LT			CN-1553-13	E-07		T	PRF
INC196A	2	A		2.0	GA	EL	C	MT			CN-1553-13	D-08	10	T	PRF
INC196A	2	A		2.0	GA	EL	C	RP			CN-1553-13	D-08		T	PRF
INC196A	2	A		2.0	GA	EL	C	Q			CN-1553-13	D-08		T	PRF
INC196A	2	A		2.0	GA	EL	C	LT			CN-1553-13	D-08		T	PRF
INC250A	1	B		1.0	GL	EL	C	RP			CN-1553-11	L-07			PRF
INC250A	1	B		1.0	GL	EL	C	MT			CN-1553-11	L-07	10		PRF
INC250A	1	B		1.0	GL	EL	C	Q			CN-1553-11	L-07			PRF
INC251B	1	B		1.0	GL	EL	C	Q			CN-1553-11	L-06			PRF
INC251B	1	B		1.0	GL	EL	C	RP			CN-1553-11	L-06			PRF
INC251B	1	B		1.0	GL	EL	C	MT			CN-1553-11	L-06	10		PRF
INC252B	1	B		1.0	GL	EL	C	RP			CN-1553-11	K-07			PRF
INC252B	1	B		1.0	GL	EL	C	MT			CN-1553-11	K-07	10		PRF
INC252B	1	B		1.0	GL	EL	C	Q			CN-1553-11	K-07			PRF
INC253A	1	B		1.0	GL	EL	C	Q			CN-1553-11	K-06			PRF
INC253A	1	B		1.0	GL	EL	C	RP			CN-1553-11	K-06			PRF
INC253A	1	B		1.0	GL	EL	C	MT			CN-1553-11	K-06	10		PRF
IND 1B	1	B		12.	GA	EL	C	Q	F01	CS	CN-1561-10	L-13			PRF
IND 1B	1	B		12.	GA	EL	C	MT	F01	CS	CN-1561-10	L-13	60		PRF
IND 1B	1	B		12.	GA	EL	C	RP			CN-1561-10	L-13			PRF
IND 2A	1	B		12.	GA	EL	C	RP			CN-1561-10	J-13			PRF
IND 2A	1	B		12.	GA	EL	C	MT	F01	CS	CN-1561-10	J-13	60		PRF
IND 2A	1	B		12.	GA	EL	C	Q	F01	CS	CN-1561-10	J-13			PRF
IND 10	2	C		8.0	CK	SA	-	CV			CN-1561-10	G-10			PRF
IND 25A	2	B		2.0	GL	EL	C	MT			CN-1561-10	E-13	15		PRF

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## DATA SORTED BY VALVE NAME

DUKE POWER COMPANY  
CATAWBA NUCLEAR STATION  
VALVE INSERVICE TESTING COMMITMENTS

VALVE NAME	ASME CLASS	CATEGORY	PASSIVE	SIZE	VALVE TYPE	ACT	NORM POS.	TEST REQ.	REL REQ	TEST ALTER	FLOW DIAGRAM	COORDINATES	VALVE TIME	ESF	RESP. PARTY
IND 25A	2	B		2.0	GL	EL	C	RP			CN-1561-10	E-13			PRF
IND 25A	2	B		2.0	GL	EL	C	Q			CN-1561-10	E-13			PRF
IND 26	2	B		8.0	BF	AD	Ø	FS			CN-1561-10	G-04		S	PRF
IND 26	2	B		8.0	BF	AD	Ø	MT			CN-1561-10	G-04	90	S	PRF
IND 26	2	B		8.0	BF	AD	Ø	Q			CN-1561-10	G-04		S	PRF
IND 26	2	B		8.0	BF	AD	Ø	RP			CN-1561-10	G-04		S	PRF
IND 27	2	B		8.0	BF	AD	C	RP			CN-1561-10	J-06		S	PRF
IND 27	2	B		8.0	BF	AD	C	MT			CN-1561-10	J-06	90	S	PRF
IND 27	2	B		8.0	BF	AD	C	Q			CN-1561-10	J-06		S	PRF
IND 27	2	B		8.0	BF	AD	C	FS			CN-1561-10	J-06		S	PRF
IND 28A	2	B		8.0	GA	EL	C	Q			CN-1561-10	H-04			PRF
IND 28A	2	B		8.0	GA	EL	C	MT			CN-1561-10	H-04	40		PRF
IND 28A	2	B		8.0	GA	EL	C	RP			CN-1561-10	H-04			PRF
IND 32A	2	B		8.0	GA	EL	Ø	Q			CN-1561-10	F-03			PRF
IND 32A	2	B		8.0	GA	EL	Ø	RP			CN-1561-10	F-03			PRF
IND 32A	2	B		8.0	GA	EL	Ø	MT			CN-1561-10	F-03	10		PRF
IND 36B	1	B		12.	GA	EL	C	Q	F02	CS	CN-1561-11	L-13			PRF
IND 36B	1	B		12.	GA	EL	C	RP			CN-1561-11	L-13			PRF
IND 36B	1	B		12.	GA	EL	C	MT	F02	CS	CN-1561-11	L-13	60		PRF
IND 37A	1	B		12.	GA	EL	C	Q	F02	CS	CN-1561-11	J-13			PRF
IND 37A	1	B		12.	GA	EL	C	RP			CN-1561-11	J-13			PRF
IND 37A	1	B		12.	GA	EL	C	MT	F02	CS	CN-1561-11	J-13	60		PRF
IND 44	2	C		8.0	CK	SA	-	CV			CN-1561-11	G-10			PRF
IND 59B	2	B		2.0	GL	EL	C	MT			CN-1561-11	E-13	15		PRF
IND 59B	2	B		2.0	GL	EL	C	Q			CN-1561-11	E-13			PRF
IND 59B	2	B		2.0	GL	EL	C	RP			CN-1561-11	E-13			PRF

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DATA SORTED BY VALVE NAME

DUKE POWER COMPANY  
CATAMBA NUCLEAR STATION  
VALVE INSERVICE TESTING COMMITMENTS

VALVE NAME	ASME CLASS	CATE-GORY	PAS-SIVE	SIZE	VALVE TYPE	ACT	NORM PCS.	TEST REQ.	RELF REQS	TEST ALTER	FLOW DIAGRAM	COORD-INATES	VALVE TIME	ESF	RESP. PARTY
1MISV5233	2	A		0.5	GL	S	0	RP			CN-1499-MI19			T	PRF
1MISV5233	2	A		0.5	GL	S	0	LT			CN-1499-MI19			T	PRF
1IASV5080	2	A		0.5	GL	S	0	Q			CN-1499-IA1.01			S	PRF
1IASV5080	2	A		0.5	GL	S	0	MT	Y01	RR	CN-1499-IA1.01		<5	S	PRF
1IASV5080	2	A		0.5	GL	S	0	FS			CN-1499-IA1.01			S	PRF
1IASV5080	2	A		0.5	GL	S	0	RP	Y01	RR	CN-1499-IA1.01			S	PRF
1IASV5080	2	A		0.5	GL	S	0	LT			CN-1499-IA1.01			S	PRF
1IASV5160	2	A		0.5	GL	S	0	Q			CN-1499-IA1.01			S	PRF
1IASV5160	2	A		0.5	GL	S	0	MT	Y01	RR	CN-1499-IA1.01		<5	S	PRF
1IASV5160	2	A		0.5	GL	S	0	FS			CN-1499-IA1.01			S	PRF
1IASV5160	2	A		0.5	GL	S	0	RP	Y01	RR	CN-1499-IA1.01			S	PRF
1IASV5160	2	A		0.5	GL	S	0	LT			CN-1499-IA1.01				PRF
1IACV5340	2	AC		1.0	CK	SA	-	LT			CN-1499-IA1.01				PRF
1IACV5340	2	AC		1.0	CK	SA	-	CV	Z01	RR	CN-1499-IA1.01				PRF
1IACV5350	2	AC		1.0	CK	SA	-	LT			CN-1499-IA1.01				PRF
1IACV5350	2	AC		1.0	CK	SA	-	CV	Z01	RR	CN-1499-IA1.01				PRF
1IACV5360	2	AC		1.0	CK	SA	-	LT			CN-1499-IA1.01				PRF
1IACV5360	2	AC		1.0	CK	SA	-	CV	Z01	RR	CN-1499-IA1.01				PRF
1IACV5370	2	AC		1.0	CK	SA	-	LT			CN-1499-IA1.01				PRF
1IACV5370	2	AC		1.0	CK	SA	-	CV	Z01	RR	CN-1499-IA1.01				PRF
1IACV5380	2	AC		1.0	CK	SA	-	LT			CN-1499-IA1.01				PRF
1IACV5380	2	AC		1.0	CK	SA	-	CV	Z01	RR	CN-1499-IA1.01				PRF
1IACV5390	2	AC		1.0	CK	SA	-	LT			CN-1499-IA1.01				PRF
1IACV5390	2	AC		1.0	CK	SA	-	CV	Z01	RR	CN-1499-IA1.01				PRF

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RELIEF REQUEST #A1

VALVE: 1CA37, 1CA41, 1CA45, 1CA49, 1CA53, 1CA57, 1CA61, 1CA65

CATEGORY: C

CLASS: 2

FUNCTION: Open to pass flow from motor driven and turbine driven auxiliary feedwater pumps to steam generators.

TEST REQUIREMENT(S): Exercise check valve (full stroke) to the position required to fulfill its function every 3 months.

BASIS FOR RELIEF: Exercising these valves would result in feeding cold water into the steam generators. This is not desirable during power operation since flow through these valves would unnecessarily thermal shock the steam generator feedwater nozzles. Testing during cold shutdown is not desirable due to the steam generators being in wet layup conditions. Testing at a time prior to Mode 2 allows normal steam generator levels to be established and the system aligned for standby readiness.

ALTERNATE TESTING: Exercise check valve (full stroke) to the position required to fulfill its function after each cold shutdown prior to entering Mode 2.

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RELIEF REQUEST#Z01

Valve: 1IACV5340, 1IACV5350, 1IACV5360, 1IACV5370, 1IACV5380, 1IACV5390.

Category: A, C

Class: 2

Function: Provides containment isolation.

Test Requirement(s): Exercise check valve (full stroke) to the position required to fulfill its function every 3 months.

Basis for Relief: System design does not provide any indication for verifying valve closure upon flow reversal.

Alternate Testing: Verify valve closure during performance of leak rate test during refueling.