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HAMPTON,J.W. Duke Power Co.
RECIP.NAME RECIPIENT AFFILIATION
Document Control Branch (Document Control Desk)

SUBJECT: Forwards Relief Request 92-05,requesting relief from ASME Boiler & Pressure Vessel Code Section XI for Unit 2 Core Flood pressure retaining tie-in welds due to impracticality of inservice insp.W/one oversize drawing.

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TITLE: OR Submittal: Inservice Inspection/Testing/Relief from ASME Code

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DUKE POWER

March 2, 1992

U. S. Nuclear Regulatory Commission
Attention: Document Control Desk
Washington, DC 20555

Subject: Oconee Nuclear Station
Docket Nos. 50-269, -270, -287
Second Ten Year Interval
Request for Relief No. 92-05

Pursuant to 10 CFR 50.55a, please find the attached request for relief number 92-05 from the requirements of Section XI of the ASME Boiler and Pressure Vessel Code (with Addenda through Winter 1980). This request is being submitted due to the impracticality of inservice inspection as required by the code. The attached request concerns the inservice inspection being performed during the second ten year interval. I am requesting approval on this request as soon as possible.

Very truly yours,

J. W. Hampton

Attachments

rr9205

xc: Mr. S. D. Ebneter
Regional Administrator, Region II

Mr. Heyward Shealy, Chief
Bureau of Radiological Health, SC

Mr. L. A. Wiens
Project Manager, ONRR

Mr. P. E. Harmon
Senior Resident Inspector, ONS

Duke Power Company
Oconee Nuclear Station
Second Ten Year Interval
Request for Relief No. 92-05

I. Component for Which Relief is Requested:

(a) Name and Number:

Unit 2 Core Flood pressure retaining tie-in welds associated with 2CF-20 and 2CF-22, Core Flood Tank Drain Line Block Valves

(b) Function:

Valves through which Core Flood Tanks A & B can be drained for maintenance.

(c) ASME Code Class:

ISI Class B, Duke Class B

(d) IWV-2200 Valve Category:

N/A

II. Reference Code Requirement that has been Determined to be Impractical:

ASME Boiler and Pressure Vessel Code Section XI, 1980 Edition (with Addenda through Winter 1980) **Article IWA-5211(d)** which requires that the pressure retaining components within each system boundary shall be subject to system pressure tests under which conditions visual examination VT-2 is performed to detect leakages may be conducted in conjunction with a system hydrostatic test during a plant shutdown at a pressure above nominal operation pressure or system pressure for which overpressure protection is provided; and **Article IWC 5210(2)** which requires a system hydrostatic pressure test for each system or portions of systems and for repaired or replaced components, or altered portion of systems.

III. Basis for Requesting Relief:

During implementation of NSM 22853, valves 2CF-20 and 2CF-22 were replaced. In order to perform hydrostatic tests of these tie-in welds as required by code, both Core Flood Tanks along with associated non-isolable piping would require being filled with demineralized water in excess of 2800 Cu.Ft. We propose that it is impractical to hydro the 2A and 2B Core Flood Tanks to allow for these hydrostatic tests since the information gained would not be time, cost or dose effective.

IV. Alternate Examination:

Inspect welds (shown on Sheets II and III of III attached) at normal operating pressure and perform an alternate non destructive examination (PT) in lieu of hydrostatic test. Normal operating pressure (NOP) of the Core Flood Tanks is 600 ± 25 psig. Design pressure is 700 psig. See also attached OFD 102A-2.3.

V. Evaluation of Acceptability of Proposed Alternate Testing with Respect to the Level of Quality and Safety as well as Public Health and Safety:

An inservice or system leakage test per IWA-5211(a) (described as a system leakage test conducted following opening and reclosing of a component in the system after pressurization to normal operating pressure) and surface examination of the welds (PT) will result in assurance of integrity of the new welds comparable to information gained by performing a hydrostatic test. The health and safety of the public and the safety of the system is not adversely affected by the alternate testing.

V. Implementation Schedule:

End of Cycle 12 refueling outage. February-March, 1992.

Form 00184 (R4-88)

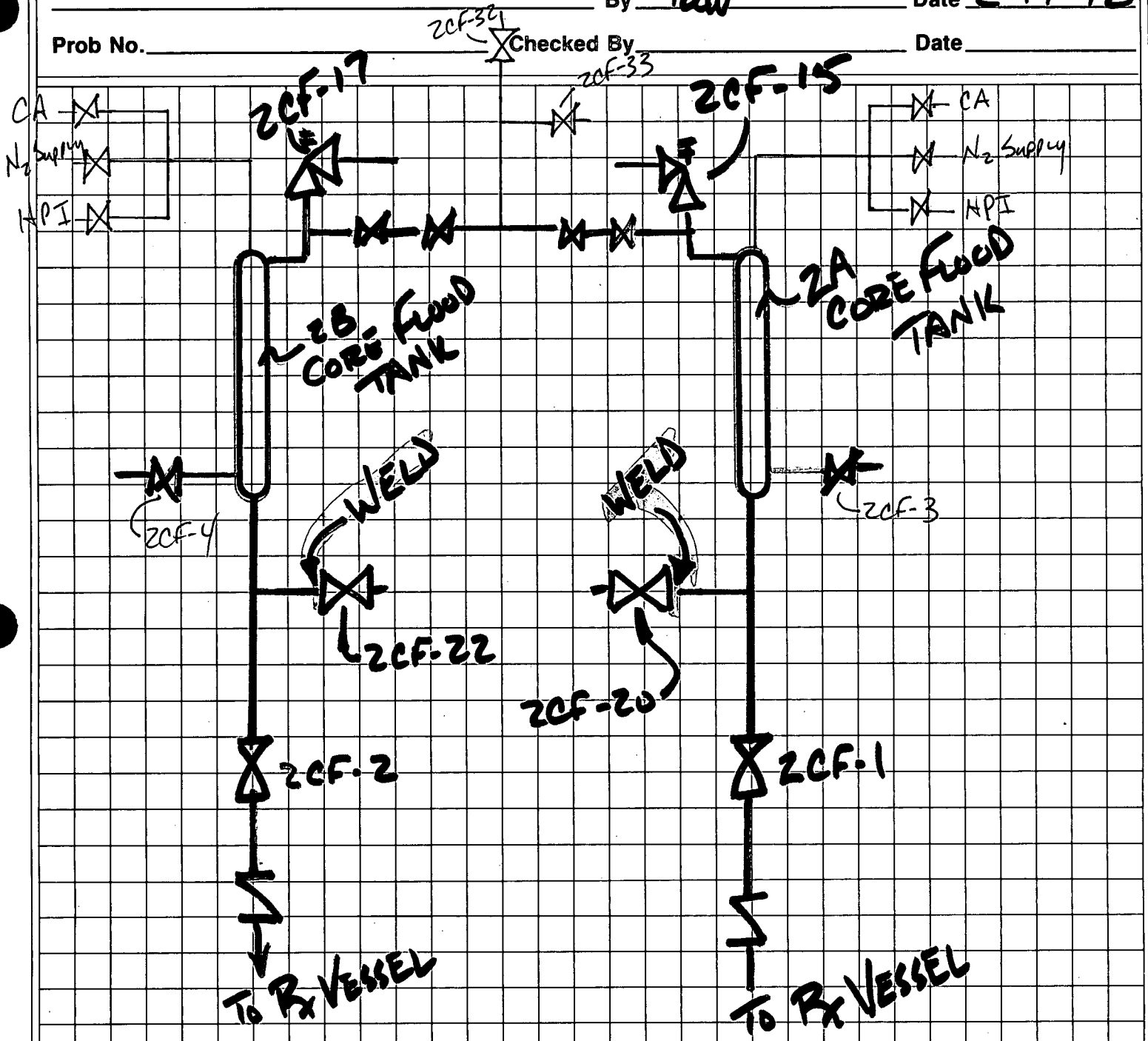
DUKE POWER COMPANY

Station _____ Unit _____ Rev. 1 File No. A Sheet _____ Of _____

Subject NSM 22853 - CF TIE-IN WELDS REQUEST FOR RELIEF

By TCW Date 2-19-92

Prob No. _____ Checked By _____ Date _____



REF OFD-102A-2.3

NOTE: AL... ...CEEDED BY (8-)
LAST WELD: 8-139
H. ELLENBURG

SYSTEM 53A (1)(3)(5)(6)(7) UNIT 2 R.B. CLASS A,B,C,E CRES/304H, 316H SHEET 8

PS.601,2 PS.6014 PS.1501.3 PS.1501.4 B31.1 B31.7

* ATTACH. WELDS: 48A, 32Z,* 42Z, 42ZA

REACTOR VESSEL

SYSTEM 53A(1) CRES/316 H
49, 50, 63 14"ØX1.250" (CLASS A) } "1" NDT CODE

SYSTEM 53A(3) CRES/304 H
32, 59-61, 42-48, 42A 14"ØX1.250" (CLASS A) } "1"
32A-32C (CLASS A NDT) 1"ØX.250" (CLASS C) } "1"

SYSTEM 53A(5) CRES/304H
34-36 14"ØX1.250" (CLASS B) } "5"
85, 90, 93-95, 120, 1"ØX.250" (CLASS C) } "0"
↳ 85 NDT CODE "6"

SYSTEM 53A(6) CRES/304 H
31 10"ØX1.050 (CLASS A) } "1"

SYSTEM 53A(7) CRES/304 H
39-40, 37, 39A 14"ØX.375" (CLASS B) } "5"
126
95-100, 102B 2"ØX.154" (CLASS B) } "6"
121, 124, 125 1"X.250 (CLASS E)
2"X.154 (CLASS E)

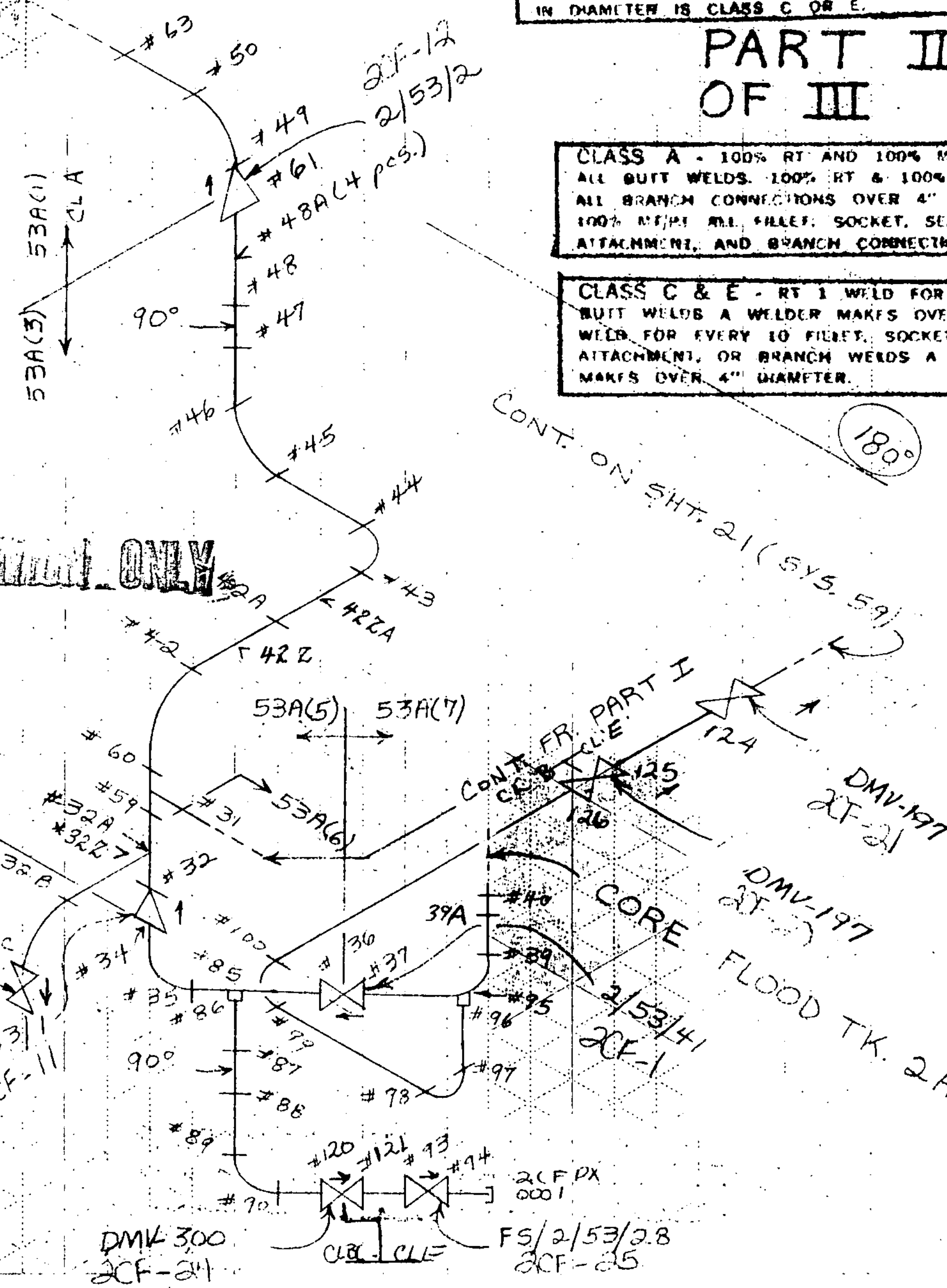
ISO. REV NO.	CHANGES	WELD NOS	S SO.	OMIT WELDS		
				4, 33, 38	16	KW
				101-103, 116	17	
				102A, 103A	20	
24	-	101A, 102B, 103B		117, 118	20	4/4/73
	+	124-126 NEW		See W.T.R. 178		KW
TSC		0.91077988		11, 12, 14, 15(20)(21)		

CLASS B - 100% RT ALL BUTT WELDS. 100% MT/PT ALL FILLET, SOCKET, SEAL, ATTACHMENT, AND BRANCH WELDS. NOTE: ANY WELD 1" AND LESS IN DIAMETER IS CLASS C OR E.

PART II OF III

CLASS A - 100% RT AND 100% MT/PT ALL BUTT WELDS. 100% RT & 100% MT/PT ALL BRANCH CONNECTIONS OVER 4" DIAMETER. 100% MT/PT ALL FILLET, SOCKET, SEAL, ATTACHMENT, AND BRANCH CONNECTION WELDS.

CLASS C & E - RT 1 WELD FOR EVERY 10 BUTT WELDS A WELDER MAKES OVER 4". MT/PT 1 WELD FOR EVERY 10 FILLET, SOCKET, SEAL, ATTACHMENT, OR BRANCH WELDS A WELDER MAKES OVER 4" DIAMETER.



14"/10" Ø W/P P.Z
OTHER W/ P1 & P-8

*Note: Attachment Weld 32Z is made over weld 32A

REF. DRWGS. 1478A,B, 1479D

D.L.A. Rev. 15 Ck. By K.L. ... 25 JAN 72

Rev 24 11/21/91

NOTE: ALL WELDS PRECEDED BY (8-)
LAST WELD: 8-129
L-231 H. ELLENBURG

SYSTEM 53A(1)(3)(5)(6)(7) UNIT 2 R.B. CLASS A, B, C, E CRES/304, 316H (304 316) SHEET 8

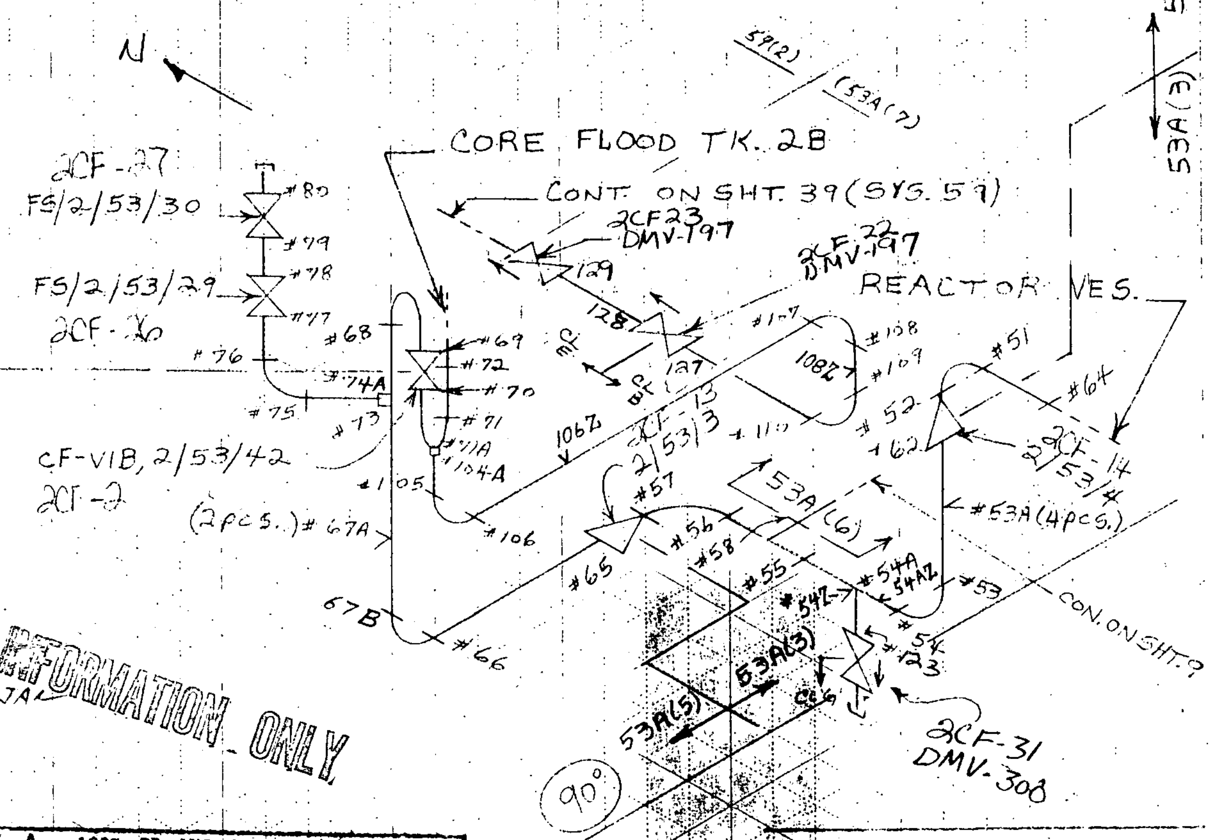
OFD 102A 2.3

B31.7 B31.1
PS-1501.3
P.S. 601.2
P.S. 601.4

* ATTACH. WELDS: 67A, 53A, 54Z*, 106Z, 54AZ, 108Z

PART III OF III

SYSTEM 53A(1) 51, 52, 64	CRES/316 H	14"ϕ X 1.250" (CLASS A)	"1"
SYSTEM 53A(3) 53-57, 62	CRES/304 H	14"ϕ X 1.250" (CLASS A)	"1"
54A, 111, 123		1"ϕ X .250" (CLASS C)* / 1" X .250" (CLASS C)	"0"
SYSTEM 53A(5) 65, 66, 67B, 68, 69	CRES/304 H	14"ϕ X 1.250" (CLASS B)	"5"
75-80, 73, 74A		1"ϕ X .250" (CLASS C)	"0"
SYSTEM 53A(6) 58	CRES/304 H	10"ϕ 1.000" (CLASS A)	"1"
SYSTEM 53A(7) 70-72	CRES/304 H	14"ϕ X .375" (CLASS B)	"5"
71A, 105-110, 104A, 127, 128, 129		2"ϕ X .154" (CLASS B) / 2" X .154" (CLASS E)	"5"



ISO. REV. NO.	±	CHANGES WELD NOS	ISO	OMIT WELDS	
26/TSC	-	54B, 54C		119	16
	+	122 W.R. 50935K		112-115, 104	20
27/TSC	-	122, Reinstate 54B + 54C		67,	21
28/TSC	-	54B, 54C E-3181		74	23
	+	123 W.O. 90030946		UR 71200 Revised welds	25/TSC
29/TSC	-	111, 112A, 115A NSM 22853			
	+	127-129 W.O. 77988			

Kiley 12 Apr 72 KWD JEF KCM

Kiley 17 JAN

FOR INFORMATION ONLY

P7 P-25
P-7 P-8

CLASS A - 100% RT AND 100% MT/PT ALL BUTT WELDS. 100% RT & 100% MT/PT ALL BRANCH CONNECTIONS OVER 4" DIAMETER. 100% MT/PT ALL FILLET, SOCKET, SEAL, ATTACHMENT, AND BRANCH CONNECTION WELDS.

CLASS C & E - RT 1 WELD FOR EVERY 10 BUTT WELDS A WELDER MAKES OVER 4". MT/PT 1 WELD FOR EVERY 10 FILLET, SOCKET, SEAL, ATTACHMENT, OR BRANCH WELDS A WELDER MAKES OVER 4" DIAMETER.

CLASS B - 100% RT ALL BUTT WELDS. 100% MT/PT ALL FILLET, SOCKET, SEAL, ATTACHMENT, AND BRANCH WELDS. NOTE: ANY WELD 1" AND LESS IN DIAMETER IS CLASS C OR E.

* Note: Attachment Welds 54Z is made over weld 54A

* Note: System Classification "C" Applies to material Requirements only (A N.D.T.)

REF. DRWG. 1478A, B, 1479D

D.L.A. Rev 15 Ck By KWD 28 JAN 72

Rev (29) 12/5/91