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UHRIG,R.E. Florida Power & Light Co.
RECIP.NAME RECIPIENT AFFILIATION
EISENHUT,D.G. Division of Licensing

SUBJECT: Forwards facility steam generator insp program. Insp planned for Fall 1981.

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FLORIDA POWER & LIGHT COMPANY

September 24, 1981
L-81-421

Office of Nuclear Reactor Regulation
Attention: Mr. Darrell G. Eisenhut, Director
Division of Licensing
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

Dear Mr. Eisenhut:

Re: Turkey Point Unit 4
Docket No. 50-251
Steam Generator Inspection Program

Attached for your information is a copy of the Turkey Point Unit No. 4 Steam Generator Inspection Program. This inspection is planned for fall 1981.

Very truly yours,

Robert E. Uhrig

Robert E. Uhrig
Vice President
Advanced Systems & Technology

REU/JEM/ras

cc: Mr. J. P. O'Reilly, Region II
Harold F. Reis, Esquire

A001
S/1

TURKEY POINT UNIT NO. 4
STEAM GENERATOR INSPECTION PROGRAM
PLANNED FOR FALL 1981

1. Eddy Current testing of U-bends is planned as follows:

   a. Steam Generator A, rows 3-5, columns 1-92; unplugged tubes will be tested at 100 KHZ using beaded flex 0.540 probe.

   b. Any tube(s) which give indication at 100 KHZ will be reprobed using 400 KHZ.

2. Hot leg tube gauging will be conducted on all three steam generators utilizing two different sized eddy current probes (.540 in , .610 in., and .650 in. diameters). The areas outside of the boxed in areas on the attached tube maps indentify the tubes to be probed.

3. Cold leg tube gauging will be conducted on all three steam generators utilizing two different sized eddy current probes (.540 in. and .610 in.). The blocked area on the attached tube map indicates the extent of the cold leg gauging.

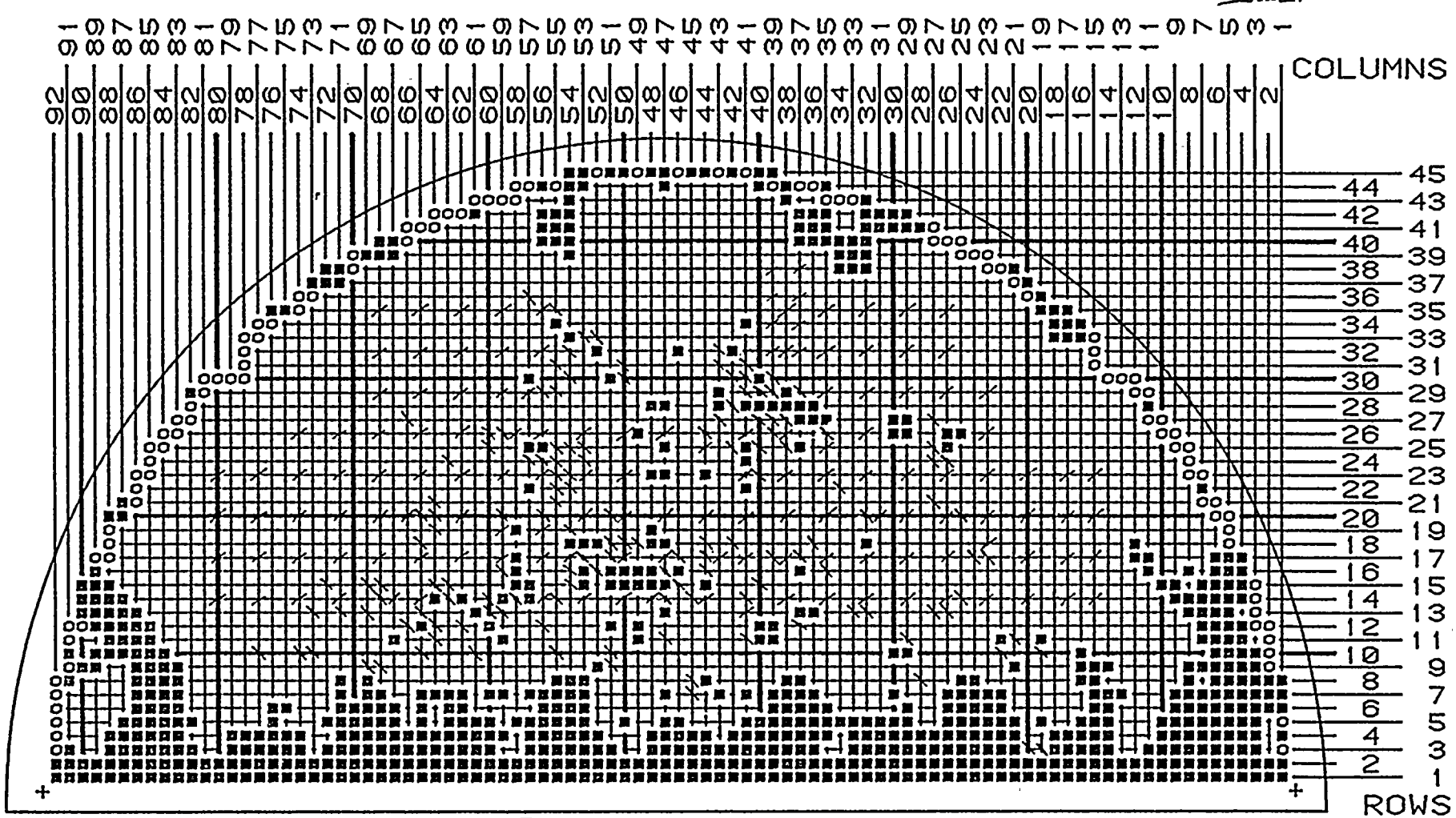
4. Handhole inspections using TV and/or photographs will be used to inspect the flow slots and determine the extent of hourglassing on the #1 tube support plates in Steam Generators A, B, and C.

5. A Regulatory Guide 1.83 inspection will be performed. The attached maps identify the areas to be inspected. Note that the areas to be inspected (for thinning) have been expanded to include the overall tubesheet area.

6. Preventive plugging will be based upon the inspection results.

SERIES 44

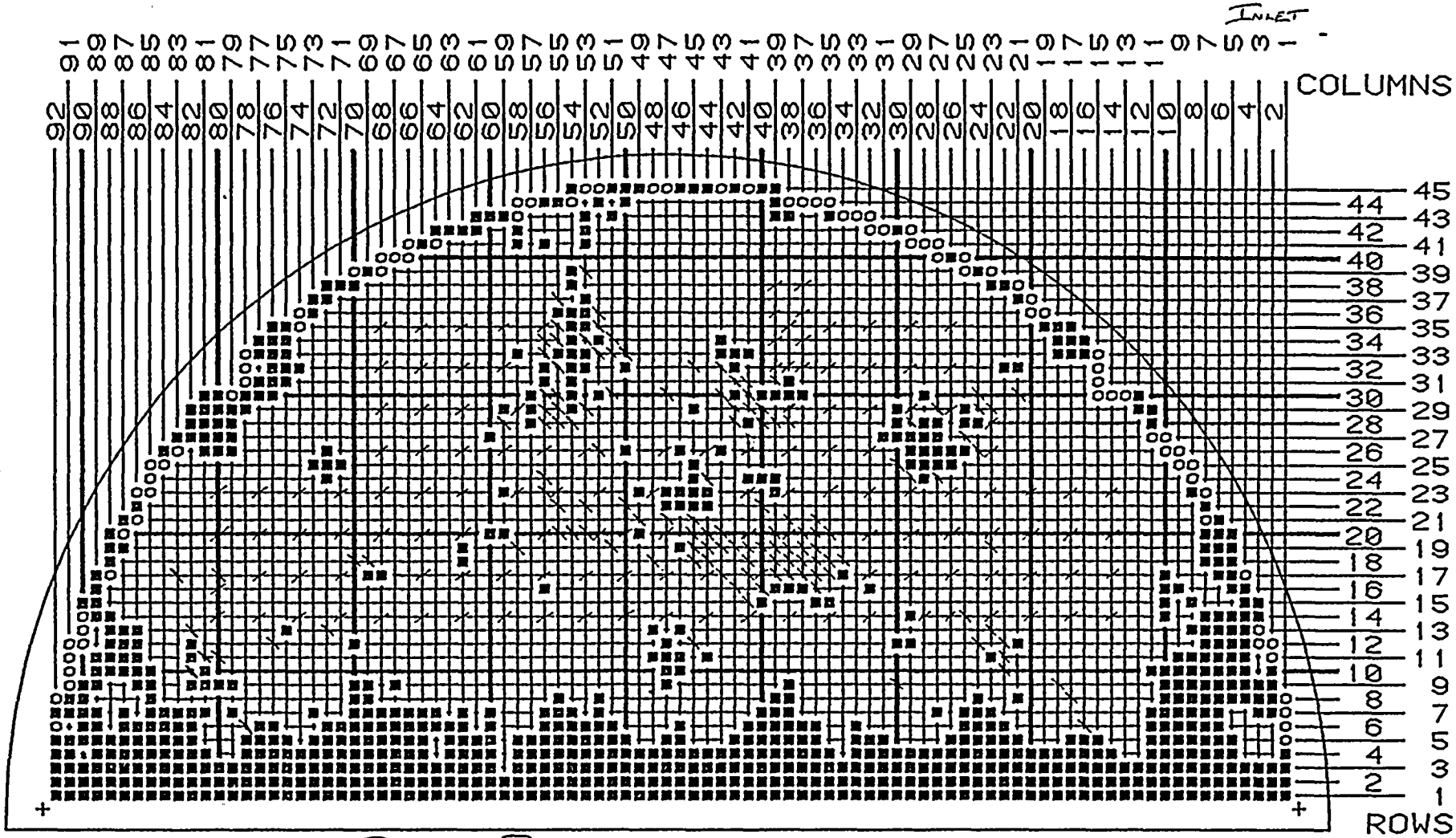
FLA-A



Reg Guide Program
/ - Inspect Tubes thru U-Bend - 141 Tubes
\ - Inspect Previous Indications thru first Support.

SERIES 44

FLA-B



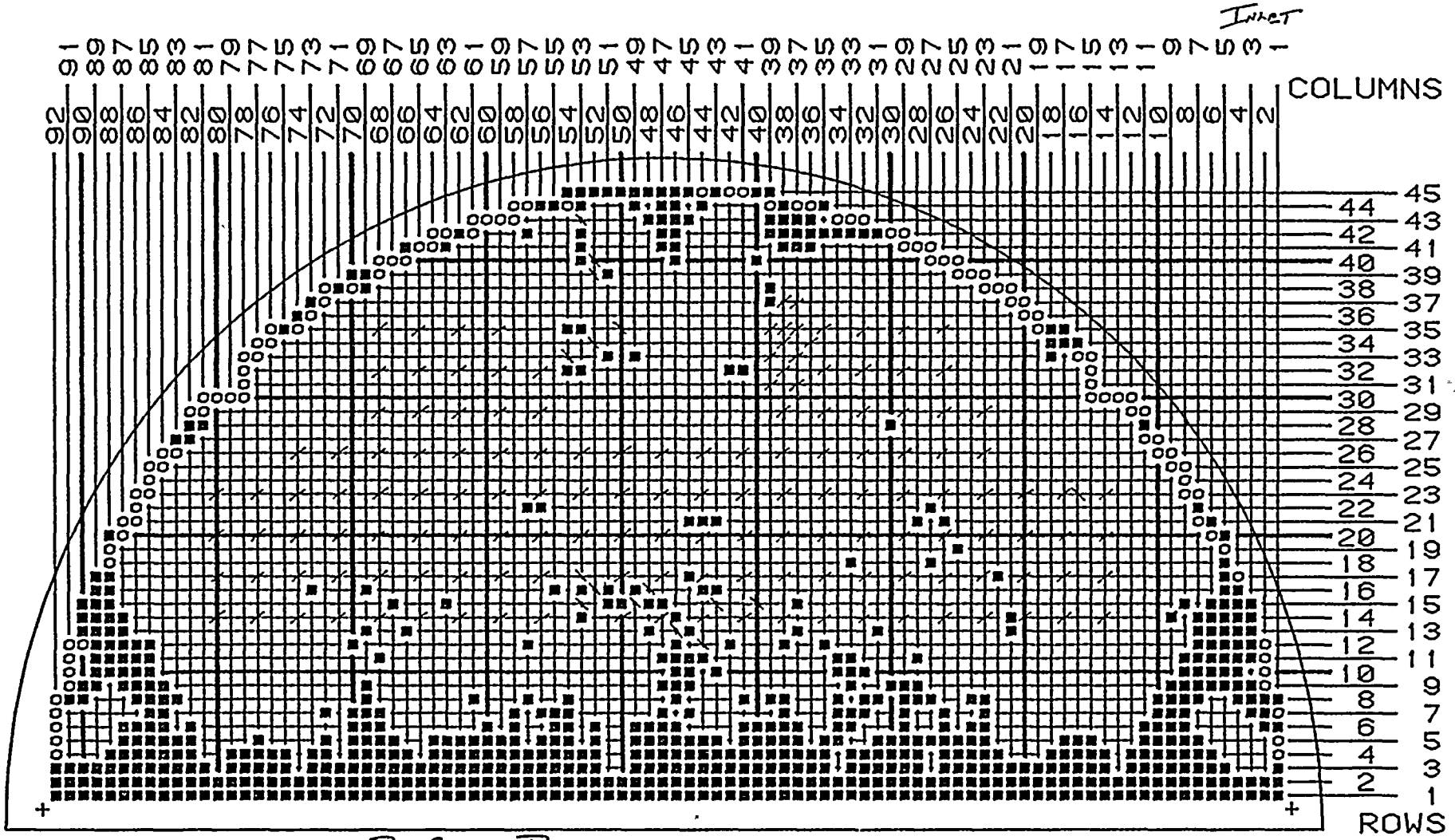
Req. Guide Program

/ - Inspect Thru U-bend - 134 Tubes.

\ - Inspect Previous Indications thru 1st Support

SERIES 44

FLA-C

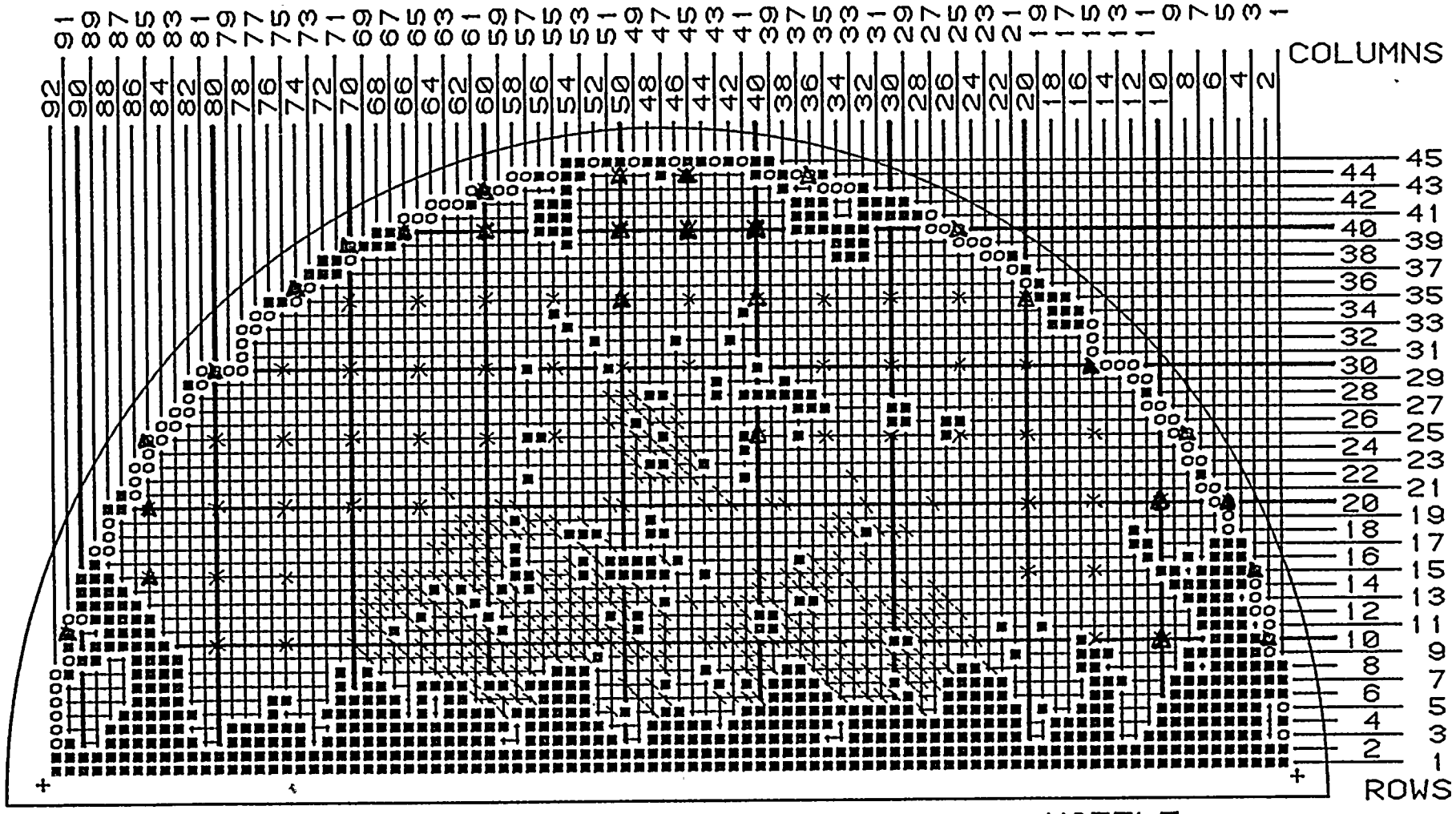


Req Guide Program
/ - Inspect Tubes Thru U-Bend - 148 Tubes
\ - Inspect Previous Indication thru 1st Support.

SERIES 44

FLA-A

OUTLET



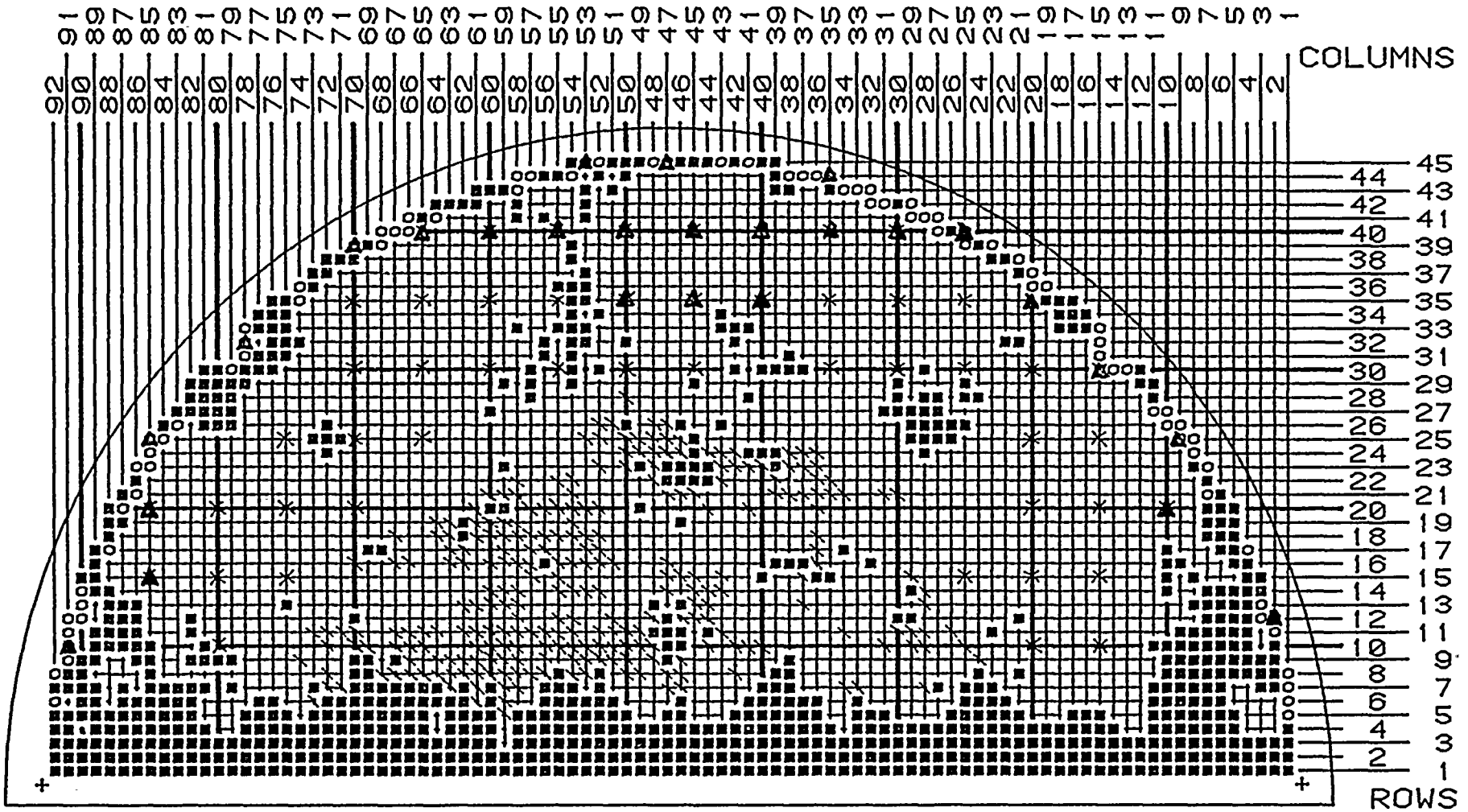
Reg Guide Program

- Inspect Previous Indications (~) thru 1st Support.
- Inspect tubes in 5x5 pattern (x) thru 1st Support.
- Tubes to be inspected through U-bend (▲)

SERIES 44

FLA-B

OUTLET



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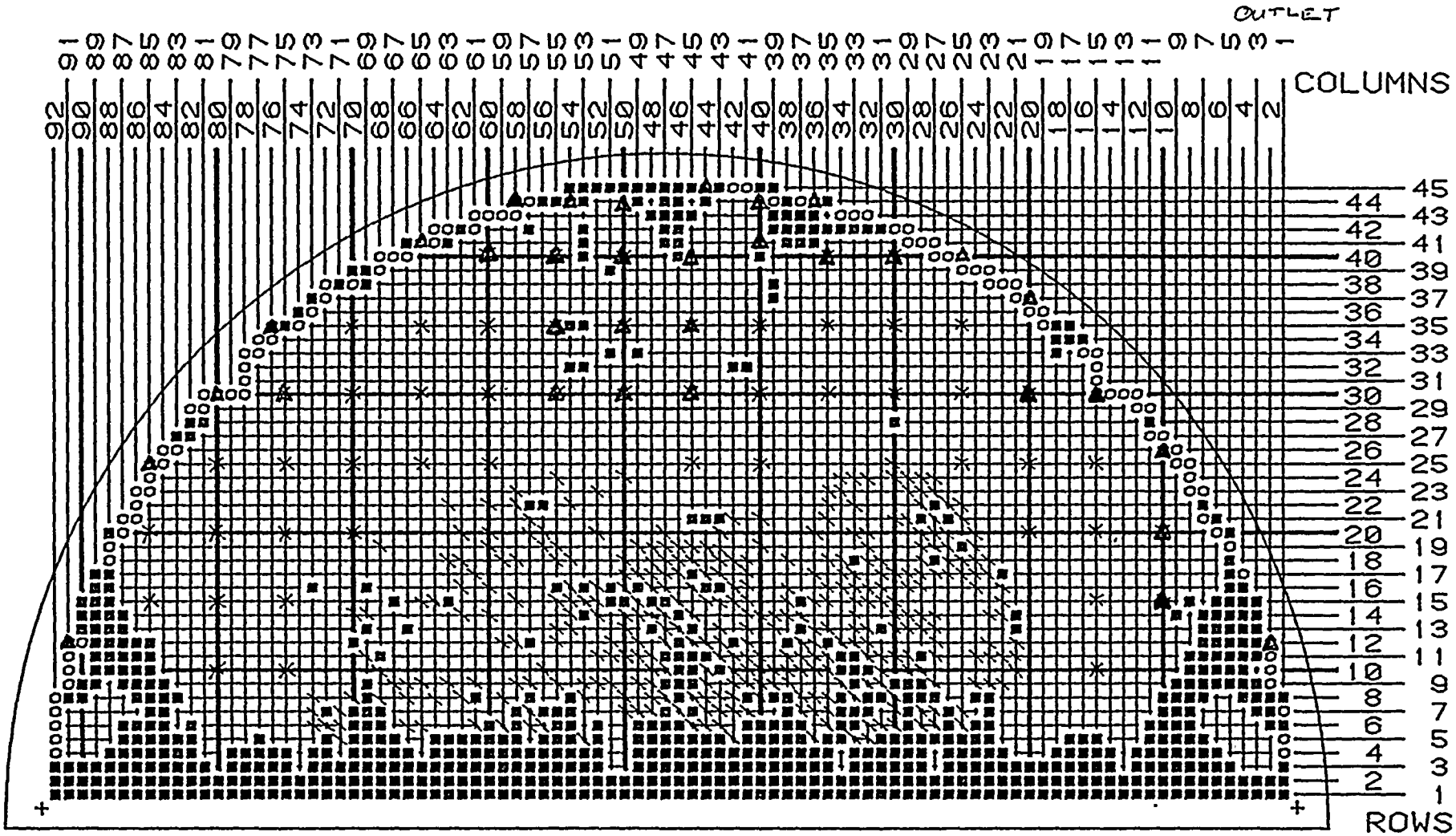
NOZZLE →

Reg Guide Program

- Inspect Previous Indications (/) thru 1st Support
- Inspect tubes in 5x5 array (X)
- TUBES TO BE INSPECTED THROUGH U-BEND (▲)

SERIES 44

FLA-C



Req. Guide Program
- Inspect Previous Indications (\) thru 1st Support.
- Inspect tubes in 5x5 array (X) thru 1st Support.
- Tubes to be inspected through U Bend (Δ)

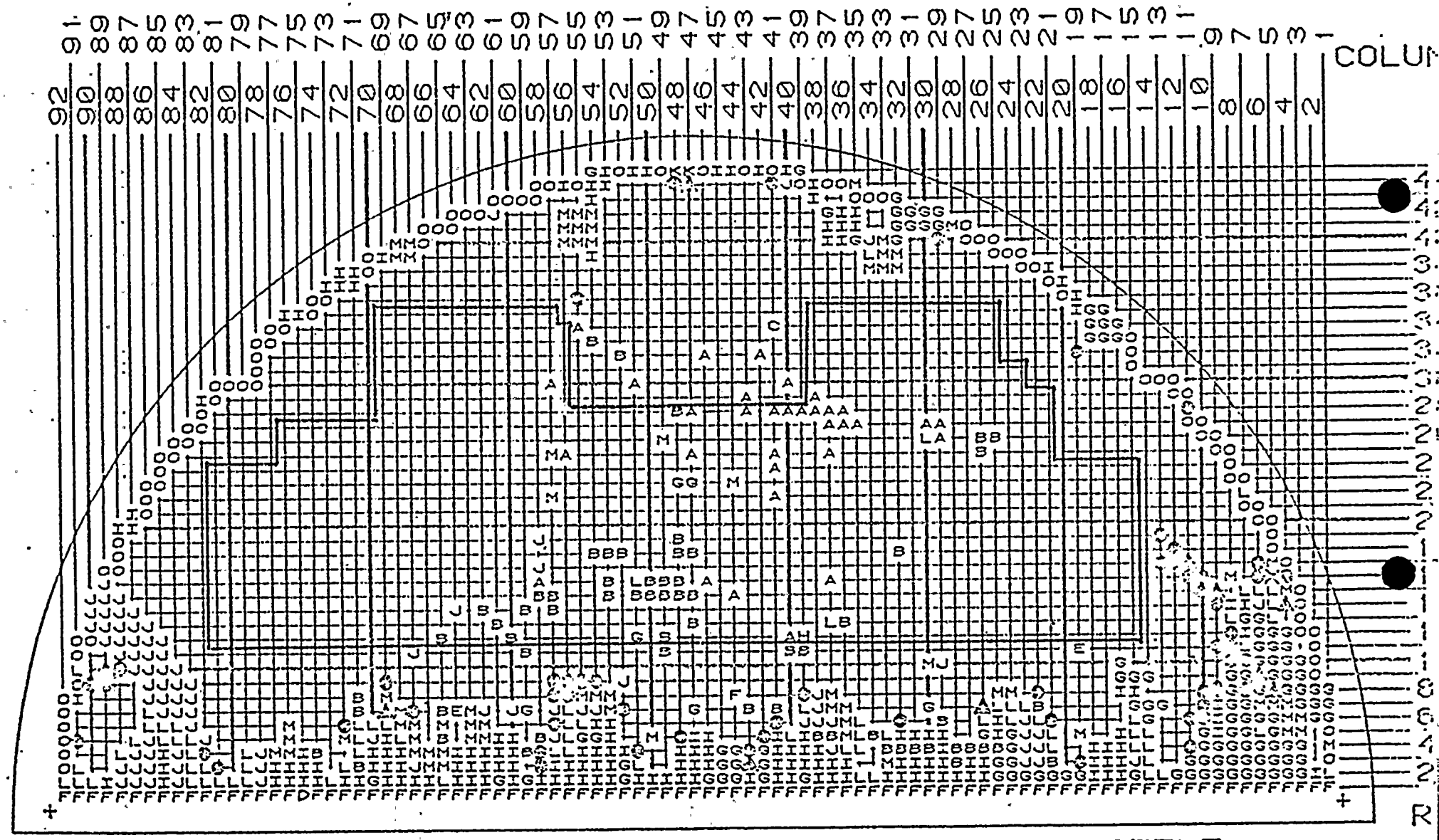
Proposed Gauging Boundary - 1981 FIGURE 9

A	33	9/74; TUBES PLUGGED
B	63	6/75; TUBES PLUGGED
C	1	DATE NOT KNOWN; TUBES PLUGGED
D	1	SHOP WELD
E	2	5/76; TUBES PLUGGED
F	92	11/76; TUBES PLUGGED
G	132	7/77; TUBES PLUGGED
H	1	7/77; WELD REPAIR HL, E/P CL
I	169	2/78; TUBES PLUGGED
J	86	8/78; TUBES PLUGGED
K	2	SHOP WELD, HL MISDRILLED
L	79	4/79; TUBES PLUGGED
M	72	5/80; MECH PLUGGED

SERIES

FLA-A

INLET



<---- MANWAY

TURKEY POINT UNIT #4
GAUGING RESULTS, NOV.,1980
STEAM GENERATOR A. INLET

RESTRICTED TUBES	NO.OF TUBES
X = .540 PROBE	1
Δ = .610 PROBE	11
● = .650 PROBE	57

NOZZLE ---->

FIGURE 11

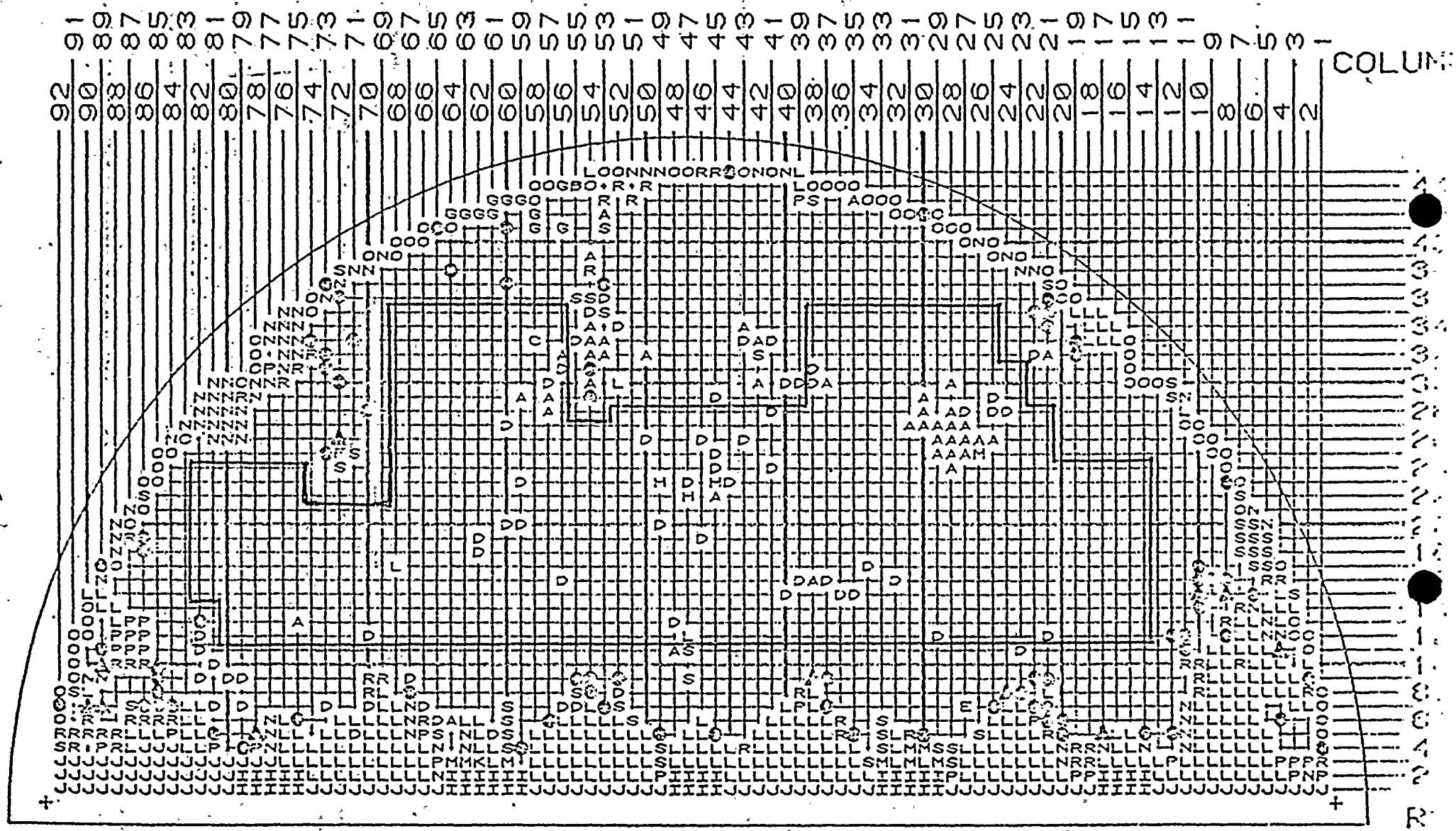
A	42	9/74; TUBES PLUGGED	J	188	11/76; TUBES PLUGGED
B	1	8/75; TUBE PLUGGED	K	1	7/77; WELD REPAIR
C	1	8/75; BARE HOLE PLUG HL-E/P CL	L	384	7/77; TUBES PLUGGED
D	66	8/75; TUBES PLUGGED	M	9	10/77; TUBES PLUGGED
E	1	SHOP WELD	N	79	2/78; TUBES PLUGGED
F	1	8/75; BARE HOLE PLUGS—HL,CL	P	28	6/78; TUBES PLUGGED
G	11	8/75; TUBES PLUGGED	R	52	4/79; TUBES PLUGGED
H	3	5/76; TUBES PLUGGED	S	48	5/80; MECH PLUGGED
	48	9/76; TUBES PLUGGED			

Proposed Gauging Boundary - 1981

SERIES 4

FLA-B

INLET



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TURKEY POINT UNIT #4
GAUGING RESULTS NOV.,1980
STEAM GENERATOR B INLET

RESTRICTED TUBES	NO.OF TUBES
X = .540 PROBE	NONE
▲ = .610 PROBE	12
● = .650 PROBE	77

NOZZLE --- →

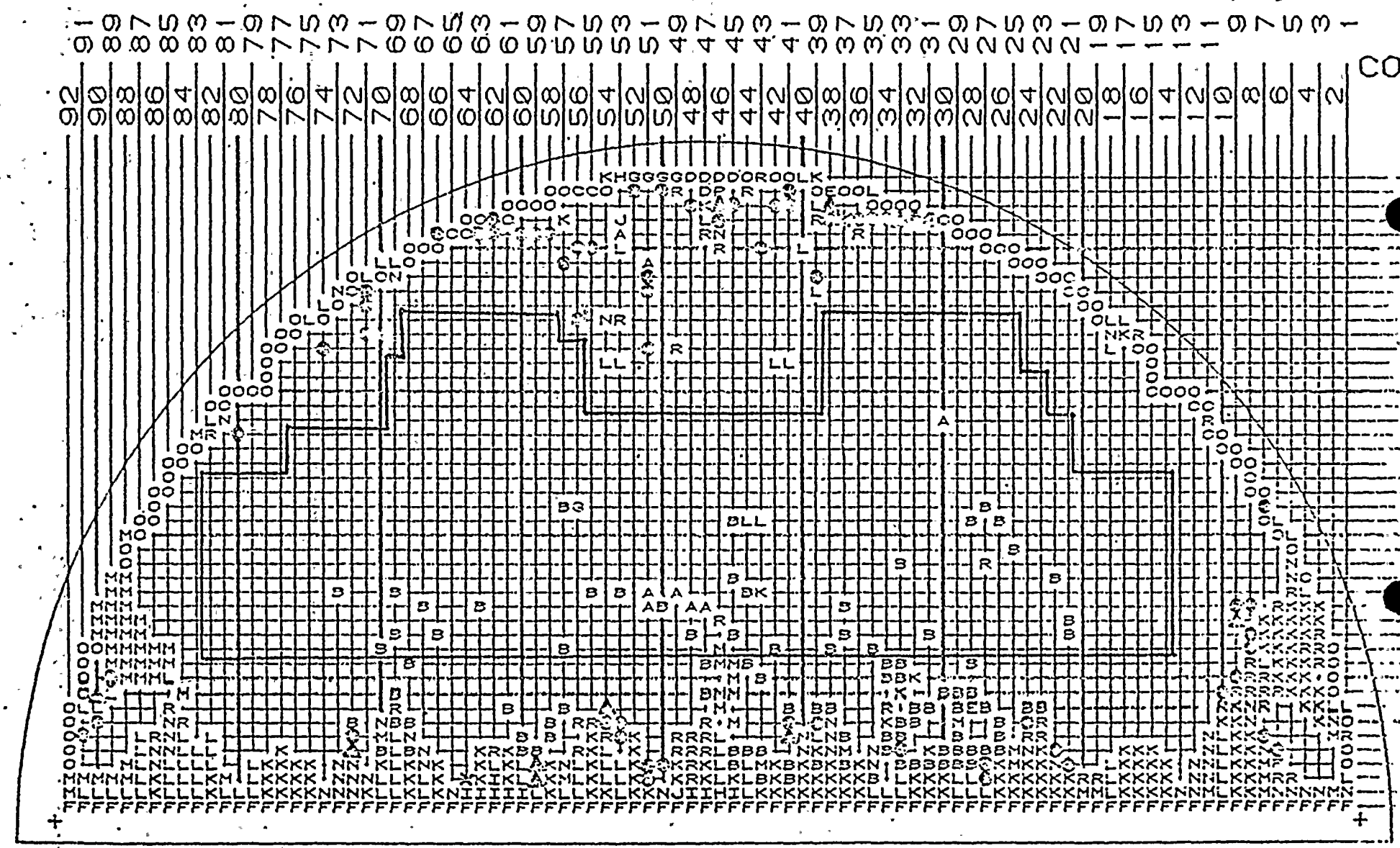
Proposed Gauging Boundary - 1981

SERIES

FLA

Inlet

A	8	9/74, TUBES PLUGGED
B	96	6/75, TUBES PLUGGED
C	2	1/76, TUBES PLUGGED
D	5	5/76, TUBES PLUGGED
E	2	9/76, TUBES PLUGGED
F	93	11/76, TUBES PLUGGED
G	5	1/77, TUBES PLUGGED
H	2	3/77, TUBES PLUGGED
I	9	4/77, TUBES PLUGGED
J	2	7/77, BARE HOLE HL, E/P OUTLET
K	157	7/77, TUBES PLUGGED
L	110	2/78, TUBES PLUGGED
M	62	8/78, TUBES PLUGGED
N	54	4/79, TUBES PLUGGED
P	1	8/78, EP 5/76, WR HL
R	56	5/80, MECH PLUGGED



← MANWAY

TURKEY POINT UNIT #4
GAUGING RESULTS NOV. 1980
STEAM GENERATOR C INLET

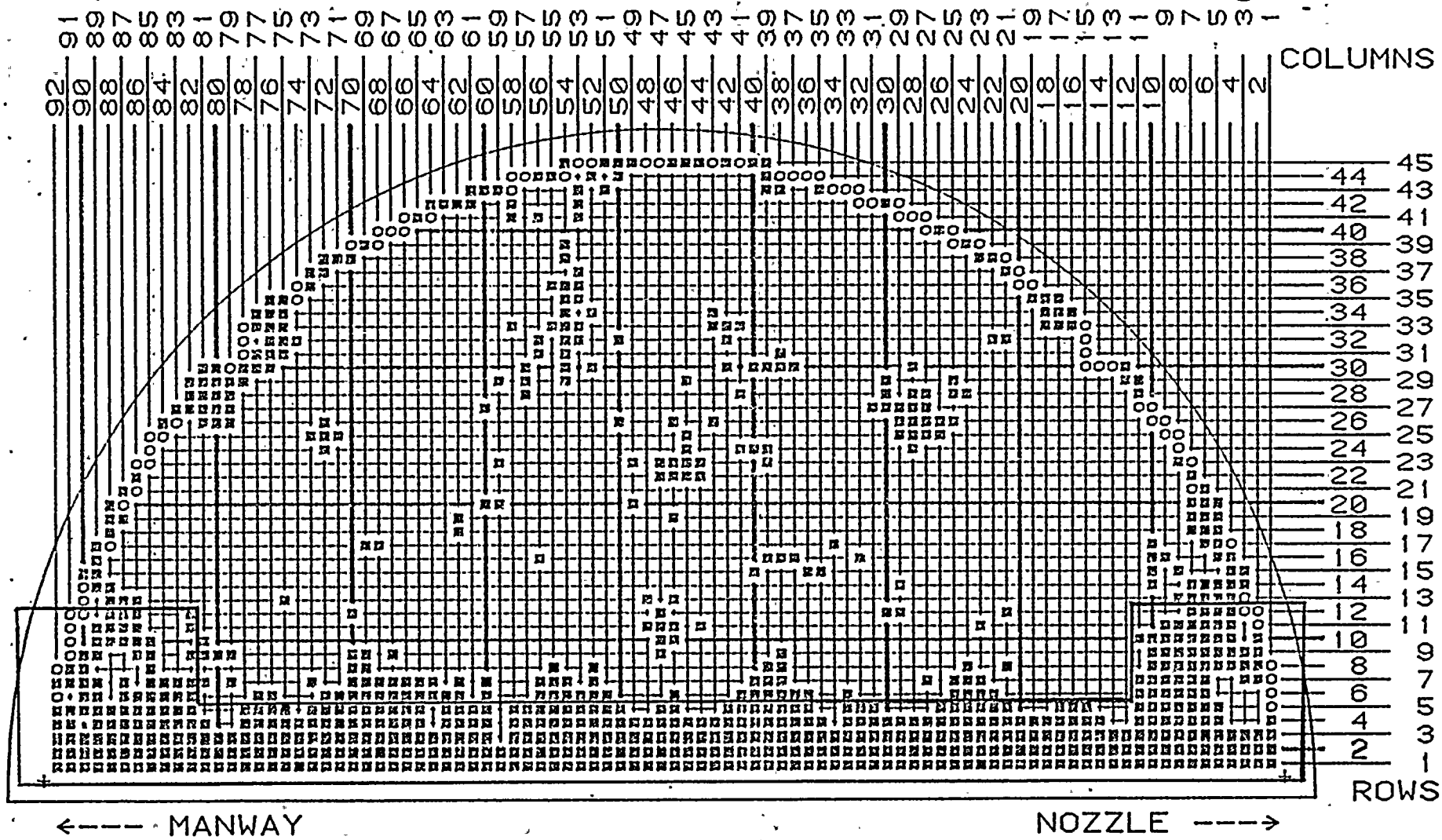
RESTRICTED TUBES	NO. OF TUBES
X=.540 PROBE	2
▲=.610 PROBE	11
●=.650 PROBE	62

NOZZLE →

SERIES 44

FLA-

OUTLET



Typical Gauging Program

Cold Leg - All S/G's

(Outlet)