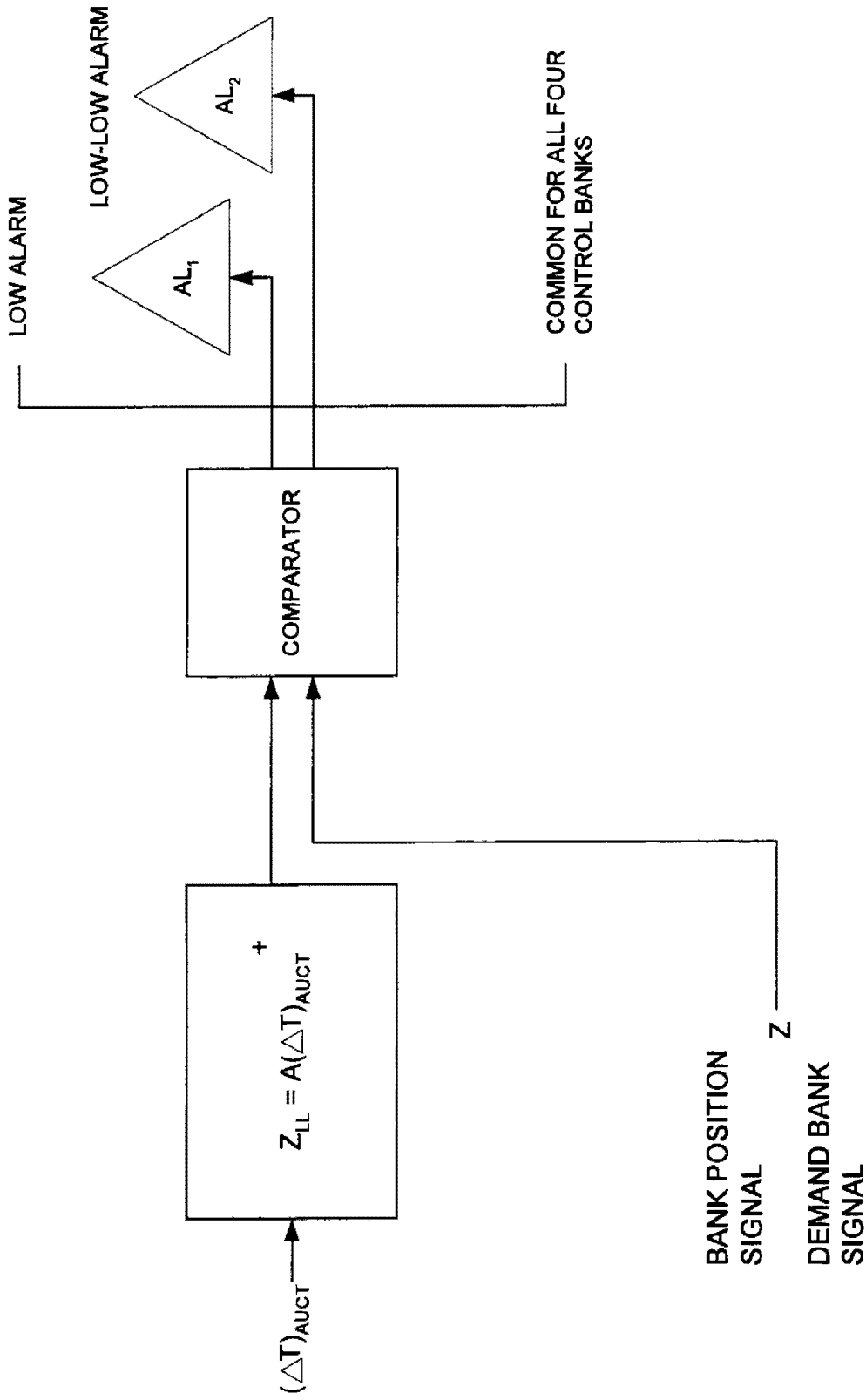


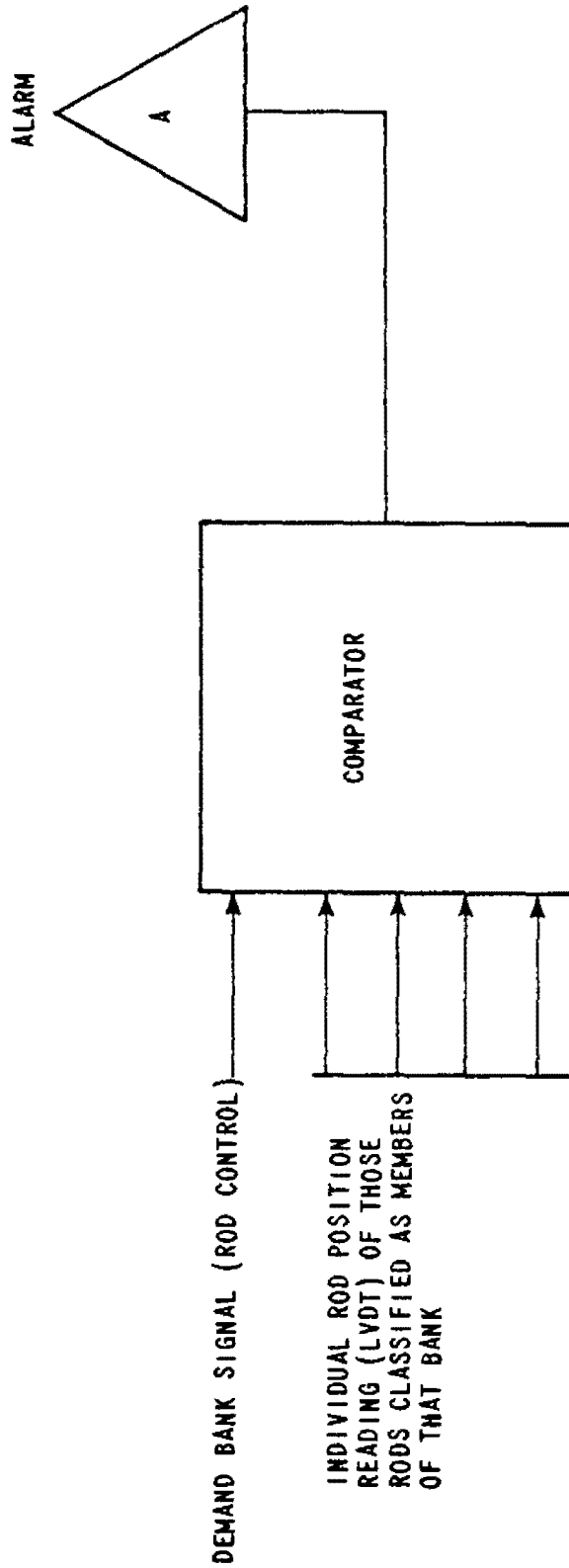
- NOTES: 1. TEMPERATURES ARE MEASURED AT STEAM GENERATOR'S INLET AND OUTLET
 2. PRESSURE IS MEASURED AT THE PRESSURIZER

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TYPICAL OF ONE CONTROL BANK

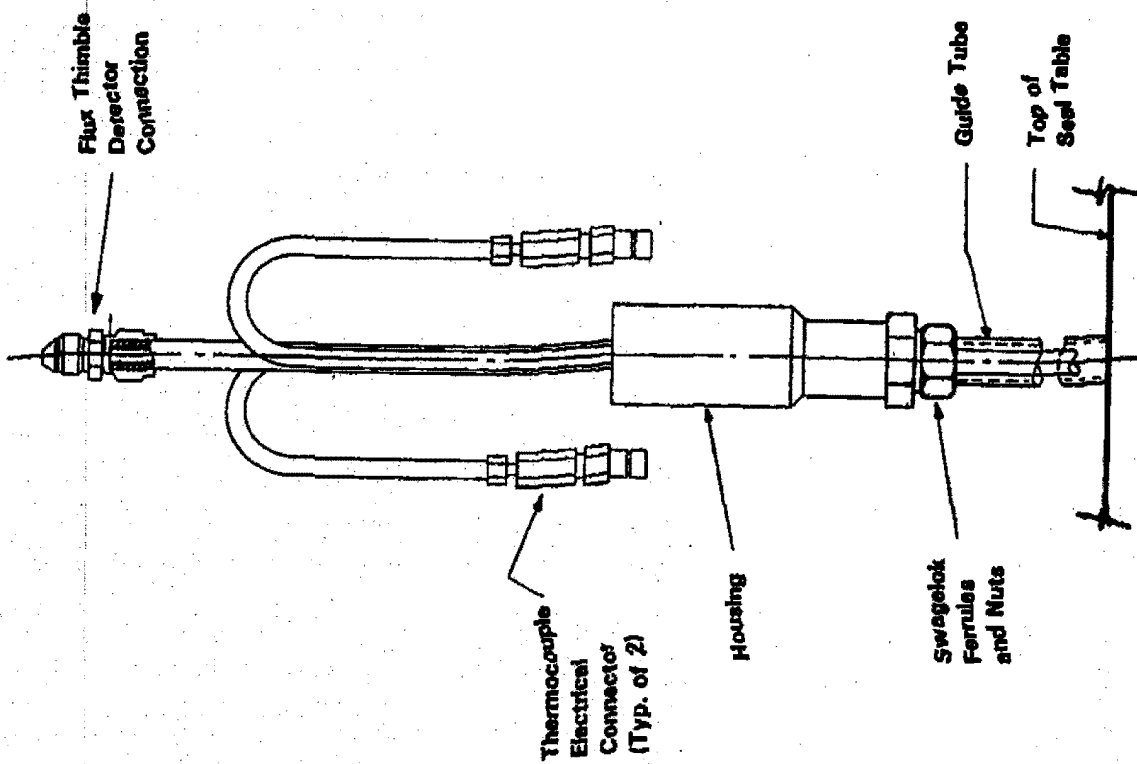
- NOTE: 1. ANALOG CIRCUITRY IS USED FOR THE COMPARATOR NETWORK
 2. COMPARISON IS DONE FOR ALL CONTROL BANKS



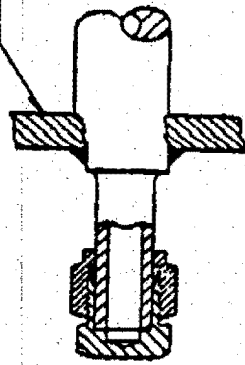
- NOTE:
1. DIGITAL OR ANALOG SIGNALS MAY BE USED FOR THE COMPARATOR COMPUTER INPUTS.
 2. THE COMPARATOR WILL ENERGIZE THE ALARM IF THERE EXISTS A POSITION DIFFERENCE GREATER THAN A PRESENT LIMIT BETWEEN ANY INDIVIDUAL ROD AND THE DEMAND BANK SIGNAL.
 3. COMPARISON IS INDIVIDUALLY DONE FOR ALL CONTROL BANKS.

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PUBLIC SERVICE ELECTRIC AND GAS COMPANY SALEM NUCLEAR GENERATING STATION	Rod Deviation Comparator	
	Updated FSAR	Figure 7.7-3

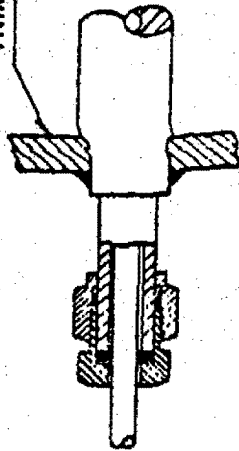


THIMBLE SEAL TABLE



THIMBLE SEAL PLUG

THIMBLE SEAL TABLE



THIMBLE LOW PRESSURE SEAL
(REFUELING ONLY)



THIMBLE GUIDE TUBE WELD UNION



THIMBLE GUIDE TUBE TO VESSEL
PENETRATION TUBE WELD JOINT

THIMBLE HIGH PRESSURE SEAL

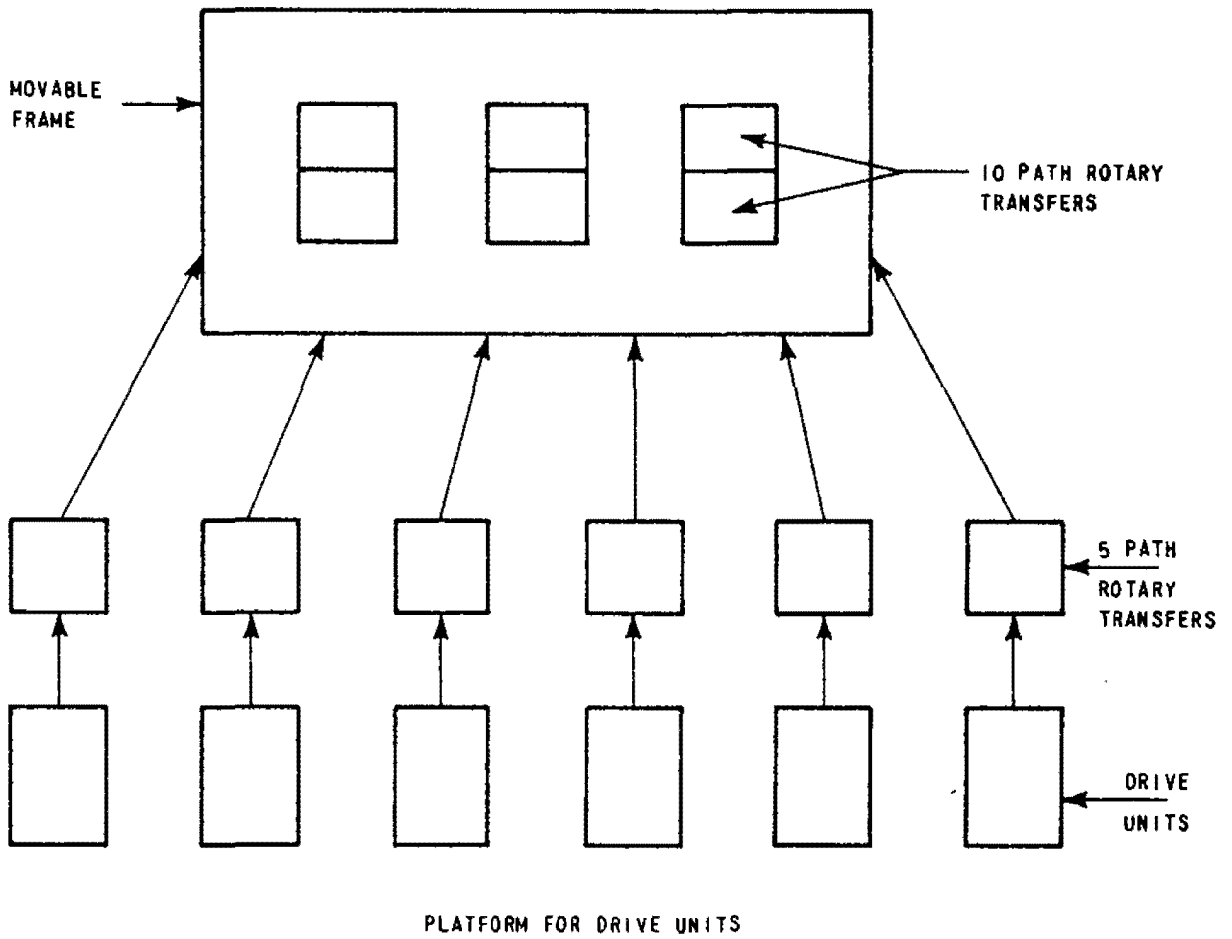
Revision 21, Dec. 6, 2004

PSEG Nuclear, LLC
HOPE CREEK NUCLEAR GENERATING STATION

Salem Nuclear Generating Station
IN-CORE INSTRUMENTATION DETAILS

Updated FSAR

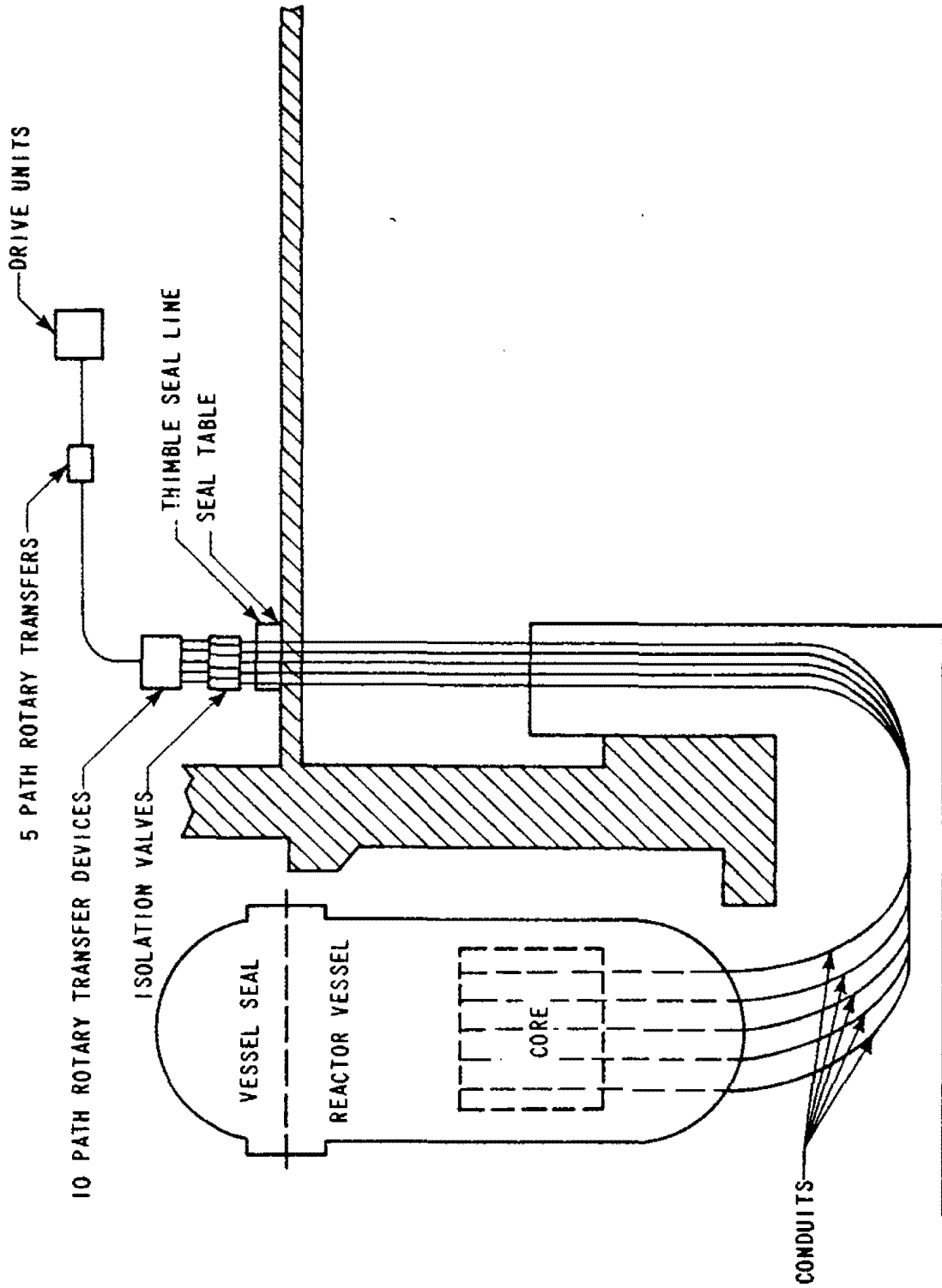
Figure 7.7-4



PLATFORM FOR DRIVE UNITS

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PUBLIC SERVICE ELECTRIC AND GAS COMPANY SALEM NUCLEAR GENERATING STATION	Schematic Arrangement of In-Core Flux Detectors (Plan View)
	Updated FSAR Figure 7.7-5



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PUBLIC SERVICE ELECTRIC AND GAS COMPANY
 SALEM NUCLEAR GENERATING STATION

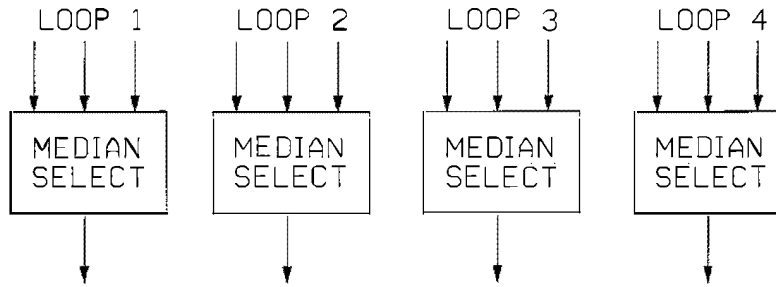
Typical Arrangement of Movable Miniature
 Neutron Flux Detector System (Elevation)

Updated FSAR

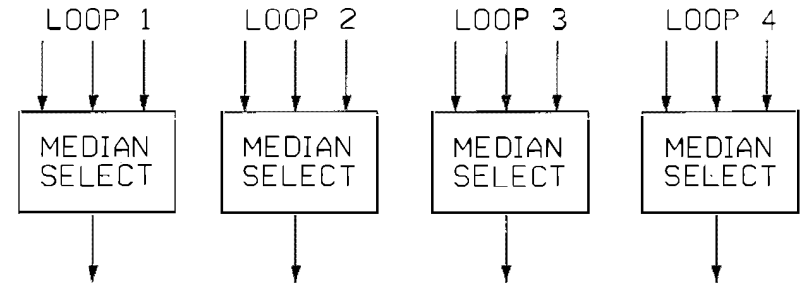
Figure 7.7-6

INPUT SIGNAL VALIDATION SCHEME FOR SALEM
ADVANCED DIGITAL FEEDWATER CONTROL SYSTEM

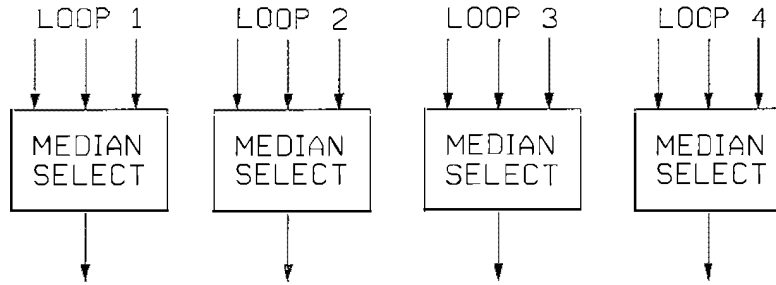
NARROW RANGE S/G LEVEL



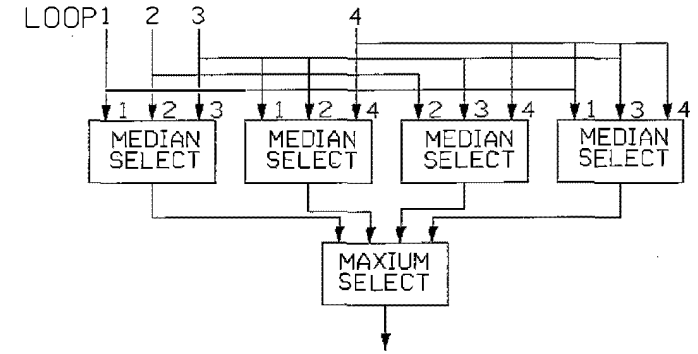
FEEDWATER FLOW



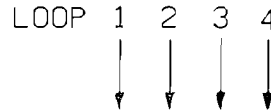
STEAM FLOW



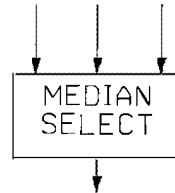
STEAMLINE PRESSURE



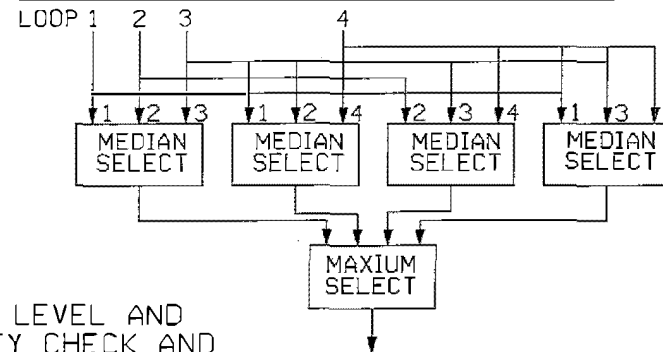
WIDE RANGE S/G LEVEL



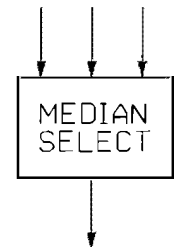
TURBINE STEAMLINE
INLET PRESSURE



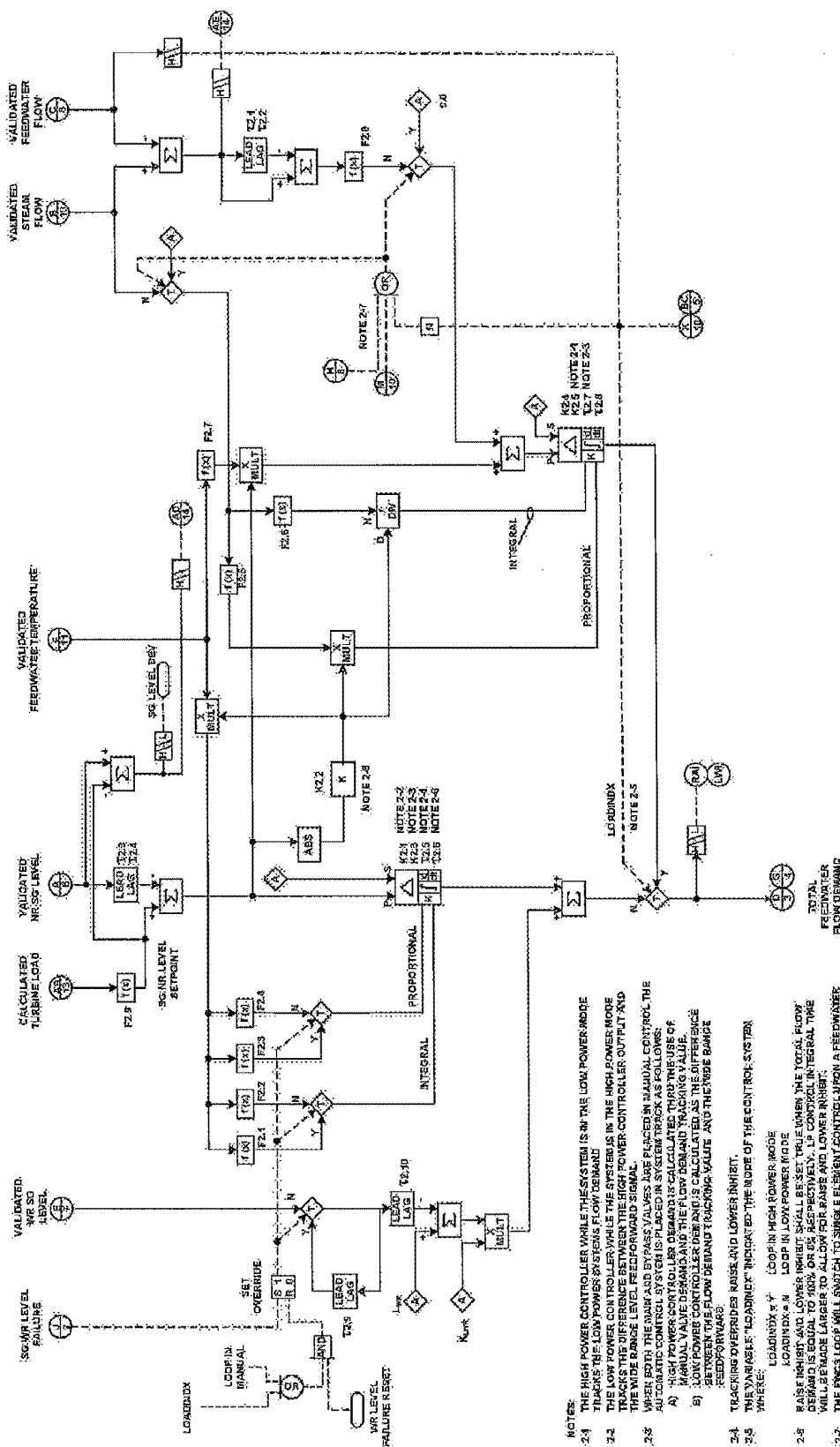
FEEDWATER
TEMPERATURE



FEEDWATER
HEADER PRESSURE

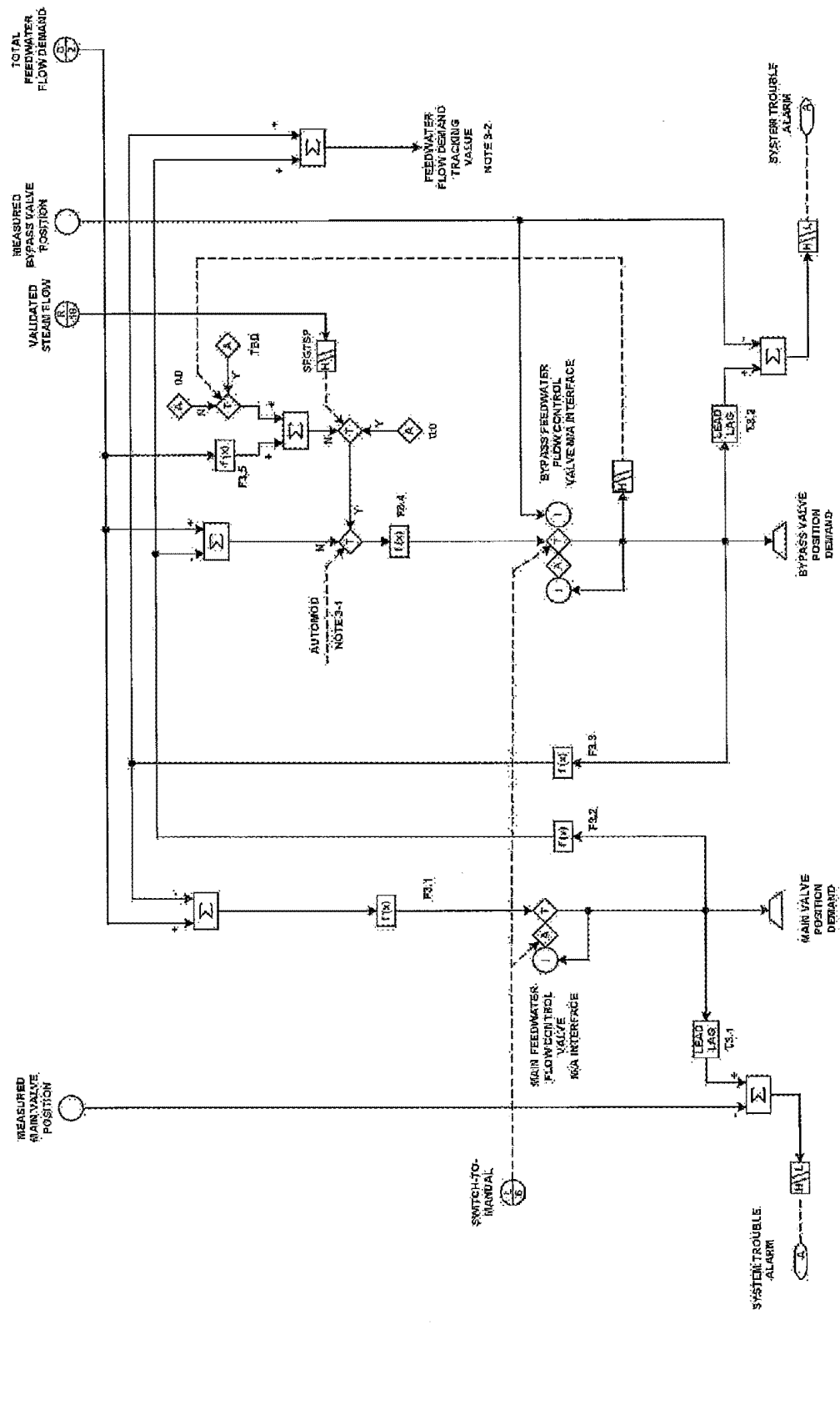


NOTE: ON INPUT SIGNALS FOR WIDE RANGE S/G LEVEL AND STEAMLINE PRESSURE, AN INPUT SIGNAL QUALITY CHECK AND SIGNAL RANGE CHECK IS PERFORMED.



- NOTES:
- 2.1 THE HIGH POWER CONTROLLER WHILE THE SYSTEM IS IN THE LOW POWER MODE TRACKS THE LOW POWER SYSTEMS FLOW DEMAND.
 - 2.2 THE LOW POWER CONTROLLER WHILE THE SYSTEM IS IN THE HIGH POWER MODE TRACKS THE DIFFERENCE BETWEEN THE HIGH POWER CONTROLLER OUTPUT AND THE WIDE RANGE LEVEL FEEDFORWARD SIGNAL.
 - 2.3 WHEN BOTH THE MANUAL BYPASS VALVES ARE PLACED IN MANUAL CONTROL, THE AUTOMATIC CONTROL SYSTEM IS PLACED IN SYSTEM TRACK AS FOLLOWS:
 - A) MANUAL VALUE DEMAND AND THE FLOW DEMAND TRACKING VALUE.
 - B) LOW POWER CONTROLLER DEMAND IS CALCULATED AS THE DIFFERENCE BETWEEN THE FLOW DEMAND TRACKING VALUE AND THE WIDE RANGE FEEDFORWARD.
 - 2.4 TRACKING OVERRIDES RAISE AND LOWER INHIBIT.
 - 2.5 THE VARIABLE "LOADINDEX" INDICATES THE MODE OF THE CONTROL SYSTEM WHERE:
 - LOADINDEX = 1 LOOP IN LOW POWER MODE
 - LOADINDEX = 0 LOOP IN HIGH POWER MODE
 - 2.6 THE FEEDFORWARD SIGNALS FOR THE WRSO LEVEL AND THE TOTAL FLOW DEMAND WILL BE LIMITED TO 40% OR 25% RESPECTIVELY. LS CONTROL INTEGRAL TIME WILL BE MADE LARGER TO ALLOW FOR RAISE AND LOWER INHIBIT.
 - 2.7 THE FEEDFORWARD SIGNAL WILL SWITCH TO SINGLE ELEMENT CONTROL UPON A FEEDWATER FLOW SIGNAL ALTERNATE ACTION, OR A STEAM FLOW SIGNAL ALTERNATE ACTION. THE GAIN BIAS IS LIMITED FROM 0 TO 1.
 - 2.8 IDENTICAL FOR LOOP 1 AND 2.
 - 2.9 IDENTICAL FOR THE OTHER LOOPS IS.

REVISION 29, JANUARY 30, 2017



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