**DIRC WATER AND HUMIDITY SENSOR LOGIC**

Lawrence Berkeley National Laboratory, 1998

### WATER LEAK SENSORS

- WATER SENSOR GRAND "OR"
- VCC LOCAL
- VCC REMOTE (RACK 5)
- GND (LOCAL = REMOTE)
- | sVcc > 0.25V
- | 0.25V > sVcc > 0.15V
- | sVcc < 0.15V
- POWER OK
- NO POWER
- < 4.75 V
- < 4.50 V
- > 5.25 V
- > 5.50 V
- BROKEN WATER SENSOR CABLE
- ULTRASONIC 0 – 5
- ULTRASONIC 6 – 11
- HUMIDITY GRAND "OR"
- | 0
- | 1
- | 2
- | 3
- | 4
- | 5
- | 6
- | 7
- | 8
- | 9
- | 10
- | 11
- RED = WATER LEAK
- GREEN = OK
- RED = TROUBLE
- YELLOW = WARNING
- GREEN = OK

### MAJORITY LOGIC

- 4/4
- 3/4
- LATCH
- DELAYED
- DIRECT
- LATCH
- DELAYED
- DIRECT
- LATCH
- DELAYED
- DIRECT
- RED = INHIBIT
- INHIBIT SWITCH
- GREEN = RESET
- RESET SWITCH
- RESET AT POWER ON

### Signals per barbox:
- PRIMARY WATER SENSOR (12)
- SECONDARY WATER SENSOR (8)
- HUMIDITY SENSOR (12)
- ULTRASONIC FLOW SENSOR (2)

### GAS FLOW METERS

(Record location of stainless steel float)

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<th>SOB</th>
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### PRESSURE METERS

(Should be the same value, except in power failure)

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<tr>
<th>DIGITAL</th>
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