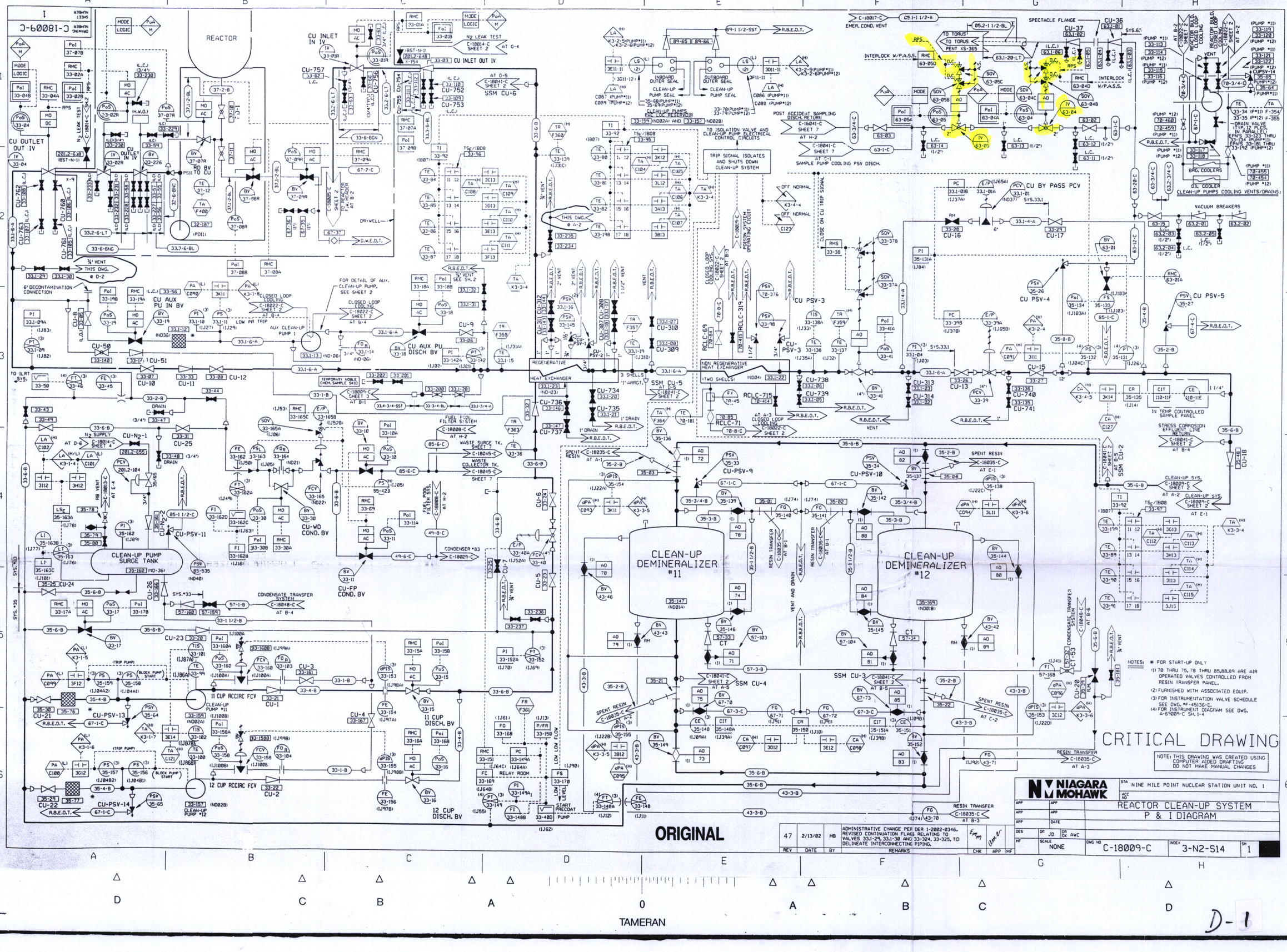
REACTOR
CU INLET IN IV
CU-757
CU-752
CU-753
CU-755
CU-754
CU OUTLET OUT IV
CU OUTLET IN IV
CU-762
CU-760
CU-761
CU-763
RD BV PSI TO CU
CU AUX PU IN BV
CU AUX PU DISCH BV
CU-50
CU-51
CU-10
CU-11
CU-12
CU-9
CU-310
CU-309
CU-307
CU-308
CU-311
CU-312
CU-PSV-1
CU-PSV-2
CU-PSV-3
CU-PSV-4
CU-PSV-5
CU-16
CU-17
CU-15
CU-13
CU-313
CU-314
CU-738
CU-739
CU-740
CU-741
CU-36
CU-37
SPECTACLE FLANGE
EMER. COND. VENT
TO TORUS
TO TORUS PENT XS-365
INTERLOCK W/P.A.S.S.
CU BY PASS PCV
VACUUM BREAKERS
REACTOR BLDG. CLOSED LOOP COOLING
BRG. COOLERS
OIL COOLER
CLEAN-UP PUMPS COOLING VENTS/DRAINS
IN TEMP CONTROLLED SAMPLE PANEL
STRESS CORROSION EFFLUENT LINE RETURN
CU-25
CU-N2-1
CU-N2-2
CU-PSV-11
CU-WD COND. BV
CU-FP COND. BV
CLEAN-UP PUMP SURGE TANK
CU-24
CU-26
CU-23
CU-1
CU-2
CU-3
CU-4
CU-21
CU-22
CU-PSV-13
CU-PSV-14
11 CUP DISCH. BV
12 CUP DISCH. BV
CU-734
CU-735
CU-736
CU-737
CU-6
CU-5
CU-7
CU-18
CU-2
CU-PSV-9
CU-PSV-10
CLEAN-UP DEMINERALIZER #11
CLEAN-UP DEMINERALIZER #12
REGENERATIVE HEAT EXCHANGER
NON REGENERATIVE HEAT EXCHANGER (TWO SHELLS)
3 SHELLS 1 ARRGT.
SSM CU-5
SSM CU-6
SSM CU-4
SSM CU-3
SSM CU-2
INBOARD OUTER SEAL
OUTBOARD OUTER SEAL
CLEAN-UP PUMP SEAL
CLEAN-UP PUMPS PDC LOC RESERVOIR
POST ACCIDENT SAMPLING DISCH. RETURN
SAMPLE PUMP COOLING PSV DISCH.
TRIP SIGNAL ISOLATES AND SHUTS DOWN CLEAN-UP SYSTEM
TO ISOLATION VALVE AND CLEAN-UP PUMP ELECTRICAL CONTROL CIRCUITS
CLOSE ON CU TRIP SIGNAL
FUEL POOL FILTER SYS.
WASTE SURGE TK.
WASTE COLLECTOR TK.
CONDENSATE TRANSFER SYSTEM
RELAY ROOM
LOW LOW FLOW
LOW LOW LEVEL
START PRECOAT PUMP
RESIN TRANSFER
SPENT RESIN
VENT AND DRAIN
CLOSED LOOP COOLING
AUX CLEAN-UP PUMP 1
CLEAN-UP PUMP #11
CLEAN-UP PUMP #12
N2 LEAK TEST
RB VENT
DRAIN
R.B.E.D.T.
D.W.E.D.T.
DRYWELL
THIS DWG.
TEMPORARY MOBILE CHEM. SAMPLE SKID
FOR DETAIL OF AUX. CLEAN-UP PUMP, SEE SHEET 2
6" DECONTAMINATION CONNECTION
TO ILRT SYS.
SYS.*33
SYS.*35
NOTES:
* FOR START-UP ONLY
(1) 70 THRU 75, 78 THRU 85, 88, 89 ARE AIR OPERATED VALVES CONTROLLED FROM RESIN TRANSFER PANEL.
(2) FURNISHED WITH ASSOCIATED EQUIP.
(3) FOR INSTRUMENTATION VALVE SCHEDULE SEE DWG. *F-45136-C.
(4) FOR INSTRUMENT DIAGRAM SEE DWG. A-69009-C SH.1-4
CRITICAL DRAWING
NOTE: THIS DRAWING WAS CREATED USING COMPUTER AIDED DRAFTING DO NOT MAKE MANUAL CHANGES
ORIGINAL
NIAGARA MOHAWK
NINE MILE POINT NUCLEAR STATION UNIT NO. 1
REACTOR CLEAN-UP SYSTEM
P & I DIAGRAM
DWG NO C-18009-C
INDEX 3-N2-S14
SH 1
SCALE NONE
47 2/13/02 MB ADMINISTRATIVE CHANGE PER DER 1-2002-0346. REVISED CONTINUATION FLAGS RELATING TO VALVES 33.1-29, 33.1-30 AND 33-324, 33-325, TO DELINEATE INTERCONNECTING PIPING.
TAMERAN
D-1