

TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401  
400 Chestnut Street Tower II

July 27, 1981

Mr. James P. O'Reilly, Director  
Office of Inspection and Enforcement  
U.S. Nuclear Regulatory Commission  
Region II - Suite 3100  
101 Marietta Street  
Atlanta, Georgia 30303



Dear Mr. O'Reilly:

OFFICE OF INSPECTION AND ENFORCEMENT BULLETIN 80-11 - RII:JPO  
50-259, -260 -296 - BROWNS FERRY NUCLEAR PLANT

In our November 7, 1980, letter to you from J. L. Cross, we provided the response regarding Browns Ferry Nuclear Plant for IE Bulletin 80-11, Masonry Wall Design. In my April 7, 1981 letter to you, we stated that we had discovered that our November 7, 1980 response did not take into consideration all applicable loadings.

To date, our reevaluation of the masonry walls is approximately 95 percent complete and none of the walls require modification (e.g., addition of restraints).

Enclosed is a detailed interim report of the results of our investigations. We anticipate providing the final report to you on or before October 1, 1981. We will notify you immediately if we identify any significant problems in the remaining reevaluations. This was discussed with Floyd Cantrell of your staff in a telephone conversation on July 24, 1981.

To the best of my knowledge, I declare the statements contained herein are complete and true.

Very truly yours,

TENNESSEE VALLEY AUTHORITY

L. M. Mills, Manager  
Nuclear Regulation and Safety

Enclosure

cc: Office of Inspection and Enforcement (Enclosure)  
U.S. Nuclear Regulatory Commission  
Division of Reactor Operations Inspection  
Washington, DC 20555

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ENCLOSURE  
OIE BULLETIN 80-11  
BROWNS FERRY NUCLEAR PLANT  
INTERIM RESPONSE  
(DOCKET NOS. 50-259, -260, -296)

This supplement to TVA's response to this bulletin is to clarify previously submitted information as well as include new data as a result of our continuing investigation into masonry walls. In addition, all concrete masonry block walls which were inaccessible for inspection at the time of the original response have now been inspected and evaluated.

ADDITIONAL WALLS

Our initial response stated that 56 walls could possibly damage safety-related equipment if they failed. Further investigations have revealed an additional 8 masonry walls which should be placed into this category for a total of 64. Five of the additional 8 walls are unreinforced mortared walls located in the diesel generator buildings and the reactor building. The remaining 3 walls are reinforced masonry walls located in the reactor building. These are walls numbered 106, 107, 108, 109, 110, 112, 113, and 114 on the data sheets described in appendix A of this response. After evaluating these 8 walls, we have determined that none of them will require additional restraints.

A more detailed analysis and investigation has now been completed for pressure loads on environmental barriers in conjunction with NRC OIE Bulletin 79-01B, tornado depressurization, pipe whip, internally-generated missiles, jet impingement, and flooding.

PRESSURE LOADS

As a result of these analyses and investigations, it was determined that one wall located in each unit was originally designed to resist pressure loads. These walls are designated 2, 43, and 74 in appendix B to this response. The design of the walls was evaluated and found to be structurally adequate to resist the design loads. In addition to these walls, 8 walls were identified as being required to withstand postulated pressure loads due to pipe rupture as a result of the investigations on NRC-OIE Bulletin 79-01B. These are walls 1, 5A, 6, 36, 37, 69, 71A, and 72 in appendix C to this response. The evaluation of these walls found that the structural ability of the walls to withstand the postulated pressure loads was adequate.

TORNADO, PIPE WHIP, MISSILES, IMPINGEMENT, AND FLOODING

The investigations into postulated loads from tornado depressurization, pipe whip, internally generated missiles, jet impingement, and flooding resulted in the conclusion that these loads did not require any additional masonry walls to be restrained. The investigation revealed that no masonry walls were intended to resist pipe whip, internally generated missiles, jet impingement, or flooding loads.

Masonry walls which are required to resist tornado depressurization in order not to damage safety-related equipment were analyzed and it was found that these walls had previously been designated as requiring restraints due to seismic loads. The design of these restraints were checked for their ability to withstand the tornado load and were found to be adequate.

#### FINAL REPORT

Our final report presently being prepared will include the following:

1. A self-contained summary of the results of our investigations including information previously submitted.
2. Complete set of data sheets for all masonry walls.
3. A revised Reevaluation Criteria for Masonry Walls, BFN-50-D709 documenting guidance and requirements for all loading conditions.

This report will be submitted by October 1, 1981.

APPENDIX A

BFNP  
UNIT 1

DIESEL  
GENERATOR BLDG  
FLOOR EL. 565.8'

SHEET 106 OF

IE BULLETIN 80-11

Final

LOCATION	ELEV		DWG. NO.	TYPE WALL & FINISH MORTAR, ETC.	WALL LENGTH	WALL WIDTH	MECHANICAL	AFFECTED SAFETY-RELATED EQUIPMENT		
	FROM	TO						ELECTRICAL ICC JLT 10%	ELECTRICAL WIRING & AUX POWER	ELECTRICAL EQPT. C & G
DGB WEST of (R) BETWEEN (R) & (U)	565.5	571.7	46W401-16	PARTITION WALL VALVE ROOM AD REINFORCING BARS Mortared	WEST WALL 14'-0"	0'-7 1/8"	7-DAY DIESEL FUEL OIL SYSTEM Oil Transfer Pump & Piping K&CW - 6" supply From North & South headers to generator room 3D. CO <sub>2</sub> FIRE PROT. 1" CO <sub>2</sub> piping in transfer pump room	25-46 25-47 25-43 25-99 25-155	DSL GEN'D F&T CHRGRA	NON TC

BFP

UNIT

107

IF BULLETIN 80-11

DIESEL GENERATOR BLDG

FLOOR 1L 533.5'

REFLECTED SAFETY RELATED EQUIPMENT

LOCATION	ELEV	DNIG NO	TIPS WALL, EXHAUSTION, WALL, MORTAR, ETC	WALL	MECHANICAL	ELECTRICAL	ELECTRICAL	ELECTRICAL	ELECTRICAL	OTHER
	533.5'	44W401-20				100	100	100	100	
DEB		44W401-20				25-97	25-97	25-97	25-97	
533.5'		44W401-20	PERITON WALL	WEST WALL 5'-0" x 8'-0"	NOHING	25-99	25-99	25-99	25-99	
533.5'		44W401-20	LABORATORY ROOM	EAST WALL 6'-4" x 8'-0"		25-155	25-155	25-155	25-155	
533.5'		44W401-20	NO REINFORCING BARS							

BENP

UNIT 3

10-10-68

10-10-68

REACTOR BLDG  
FLOOR EL 6170'

LOCATION	ELEV	DNV NO	TYPE WALL/FUNCTION WALL	WALL HEIGHT/DEPTH	MECHANICAL	ELECTRICAL	ELECTRICAL	ELECTRICAL	ELECTRICAL	COMMENTS
15" WEST OF (S)	6170' REID	441501-14	PARTITION WALL WEST SIDE OF PRO. ENGINEERS OFF.	~36" 0-2 1/2'	CO-HVAC, CIR Supply to DPO ENGR. OFFICE and kitchen.	NONE	100 1/2"	WIRING & FLY POWER	0 & G	to cell 25-135
BETWEEN (N) & (P)			NO CONCERNING END							
			affected							







2000

LOCATION	ELEV FROM TO	DWG NO.	TUBE WALL SECTION WALL MASTER FOR HEIGHT DEPTH	MECHANICAL	ELECTRICAL LCC AIRING WIRING ANY POWER	ELECTRICAL EQUIP C/O	COMMENTS
BETWEEN	593.0' - 600.0'	44-601-B					Sat (drip) mobile phone to S.C. S.W. connections
(2) f (3)	NEAR		PARTITION WALL	CB-HVAC - supply air to Instr	NONE	NONE	
(D)			PERSON'S OFFICE	7'-9" 0'-58" Foreman's office each from and supply to instr. shop			
			STORAGE ROOM				
			2 NAILS				
			NO REINFORCING BARS				
			Reinforced				





0595 2 20774

12<sup>th</sup> EDITION SO-11

14.

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APPENDIX B

Appl. 4, 2-cont'd

AFFECTED SAFETY RELATED EQUIPMENT

1. What is the purpose of the study?  
 2. What are the research objectives?  
 3. What is the scope of the study?  
 4. What are the limitations of the study?

1927

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FEC 1014

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2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 2034 2035 2036 2037 2038 2039 2040 2041 2042 2043 2044 2045 2046 2047 2048 2049 2050 2051 2052 2053 2054 2055 2056 2057 2058 2059 2060 2061 2062 2063 2064 2065 2066 2067 2068 2069 2070 2071 2072 2073 2074 2075 2076 2077 2078 2079 2080 2081 2082 2083 2084 2085 2086 2087 2088 2089 2090 2091 2092 2093 2094 2095 2096 2097 2098 2099 2100 2101 2102 2103 2104 2105 2106 2107 2108 2109 2110 2111 2112 2113 2114 2115 2116 2117 2118 2119 2120 2121 2122 2123 2124 2125 2126 2127 2128 2129 2130 2131 2132 2133 2134 2135 2136 2137 2138 2139 2140 2141 2142 2143 2144 2145 2146 2147 2148 2149 2150 2151 2152 2153 2154 2155 2156 2157 2158 2159 2160 2161 2162 2163 2164 2165 2166 2167 2168 2169 2170 2171 2172 2173 2174 2175 2176 2177 2178 2179 2180 2181 2182 2183 2184 2185 2186 2187 2188 2189 2190 2191 2192 2193 2194 2195 2196 2197 2198 2199 2200 2201 2202 2203 2204 2205 2206 2207 2208 2209 2210 2211 2212 2213 2214 2215 2216 2217 2218 2219 2220 2221 2222 2223 2224 2225 2226 2227 2228 2229 2230 2231 2232 2233 2234 2235 2236 2237 2238 2239 2240 2241 2242 2243 2244 2245 2246 2247 2248 2249 2250 2251 2252 2253 2254 2255 2256 2257 2258 2259 2260 2261 2262 2263 2264 2265 2266 2267 2268 2269 2270 2271 2272 2273 2274 2275 2276 2277 2278 2279 2280 2281 2282 2283 2284 2285 2286 2287 2288 2289 2290 2291 2292 2293 2294 2295 2296 2297 2298 2299 2300 2301 2302 2303 2304 2305 2306 2307 2308 2309 2310 2311 2312 2313 2314 2315 2316 2317 2318 2319 2320 2321 2322 2323 2324 2325 2326 2327 2328 2329 2330 2331 2332 2333 2334 2335 2336 2337 2338 2339 2340 2341 2342 2343 2344 2345 2346 2347 2348 2349 2350 2351 2352 2353 2354 2355 2356 2357 2358 2359 2360 2361 2362 2363 2364 2365 2366 2367 2368 2369 2370 2371 2372 2373 2374 2375 2376 2377 2378 2379 2380 2381 2382 2383 2384 2385 2386 2387 2388 2389 2390 2391 2392 2393 2394 2395 2396 2397 2398 2399 2400 2401 2402 2403 2404 2405 2406 2407 2408 2409 2410 2411 2412 2413 2414 2415 2416 2417 2418 2419 2420 2421 2422 2423 2424 2425 2426 2427 2428 2429 2430 2431 2432 2433 2434 2435 2436 2437 2438 2439 2440 2441 2442 2443 2444 2445 2446 2447 2448 2449 2450 2451 2452 2453 2454 2455 2456 2457 2458 2459 2460 2461 2462 2463 2464 2465 2466 2467 2468 2469 2470 2471 2472 2473 2474 2475 2476 2477 2478 2479 2480 2481 2482 2483 2484 2485 2486 2487 2488 2489 2490 2491 2492 2493 2494 2495 2496 2497 2498 2499 2500 2501 2502 2503 2504 2505 2506 2507 2508 2509 2510 2511 2512 2513 2514 2515 2516 2517 2518 2519 2520 2521 2522 2523 2524 2525 2526 2527 2528 2529 2530 2531 2532 2533 2534 2535 2536 2537 2538 2539 2540 2541 2542 2543 2544 2545 2546 2547 2548 2549 2550 2551 2552 2553 2554 2555 2556 2557 2558 2559 2560 2561 2562 2563 2564 2565 2566 2567 2568 2569 2570 2571 2572 2573 2574 2575 2576 2577 2578 2579 2580 2581 2582 2583 2584 2585 2586 2587 2588 2589 2590 2591 2592 2593 2594 2595 2596 2597 2598 2599 2600 2601 2602 2603 2604 2605 2606 2607 2608 2609 2610 2611 2612 2613 2614 2615 2616 2617 2618 2619 2620 2621 2622 2623 2624 2625 2626 2627 2628 2629 2630 2631 2632 2633 2634 2635 2636 2637 2638 2639 2640 2641 2642 2643 2644 2645 2646 2647 2648 2649 2650 2651 2652 2653 2654 2655 2656 2657 2658 2659 2660 2661 2662 2663 2664 2665 2666 2667 2668 2669 2670 2671 2672 2673 2674 2675 2676 2677 2678 2679 2680 2681 2682 2683 2684 2685 2686 2687 2688 2689 2690 2691 2692 2693 2694 2695 2696 2697 2698 2699 2700 2701 2702 2703 2704 2705 2706 2707 2708 2709 2710 2711 2712 2713 2714 2715 2716 2717 2718 2719 2720 2721 2722 2723 2724 2725 2726 2727 2728 2729 2730 2731 2732 2733 2734 2735 2736 2737 2738 2739 2740 2741 2742 2743 2744 2745 2746 2747 2748 2749 2750 2751 2752 2753 2754 2755 2756 2757 2758 2759 2760 2761 2762 2763 2764 2765 2766 2767 2768 2769 2770 2771 2772 2773 2774 2775 2776 2777 2778 2779 2780 2781 2782 2783 2784 2785 2786 2787 2788 2789 2790 2791 2792 2793 2794 2795 2796 2797 2798 2799 2800 2801 2802 2803 2804 2805 2806 2807 2808 2809 2810 2811 2812 2813 2814 2815 2816 2817 2818

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1852

APCT 14" HPT	110 NE	Box 31022
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2WCV: 4" return

Page 62 of 71

MS 24" box 11

FCW: 6 "Cocling"

with supply to turbine also air cooling.

Reactor dcs. &  
verts. 3/4" packing  
leakoffs & drains  
on M. S. & FW  
line A

oil in area

[illegible]

2004

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25000 3 15520000  
10000 10000

77814 0751N5

6"x6"x12" solid

CONC BLOCK w/  
STEEL PINS

ONE FACE &

STEEL RETAINER

ONE FACE

DRY P. K AT TOP

OF WALL

Q.



SH 43

2  
 LOCATION ELLING  
 ELEVATION 5650'

IE BULLETIN 80-11

DATE	TIME	ELEVATION	TYPE WALL (CONCRETE, BRICK, ETC.)	WALL HEIGHT	MECHANICAL	ELECTRICAL	ELECTRICAL EQUIPMENT	COMMENTS
15-0" HGT OF (R)		5650' 513.5'	STEEL & REINFORCED VALVE ROOM	9'-1" 4'-6"	HPCI: 14" x 14" to F.W. in.	PANEL 25-51" IN AREA	NONE	IE, BOTH SIDES OF WALL
8'-5 1/2" HGT OF (P)			STEEL WALL 6" x 6" x 12" STEEL CHANNEL BLACK W/ STEEL PLATES ONE SIDE OF STEEL RETAINED ONE SIDE		RIVQU: 8" return line Feedwater: 84" line A Reactor Dr. & Vats 24" pooling locks off all MSC drains from the 24" M.S. & F.W. lines A.			
			DRY PACK & 70" OR WALL		ALL IN AREA			

SH. 74

IE BULLETIN 80-11

3

15117  
N EL 5650

DATE	MECHANICAL	ELECTRICAL	GENERAL	REMARKS	DATE
15-6 West 5650 STLS of R15 8-3/4" north of P	Steam and feedwater valve room  shield wall - removable 6'x6'x 12" solid conc block w/ steel angles one face and steel returner one face  NO MORTAR	9'-1" 4'6"	HPCI: 14" pmp disch at F.W. line connection.  RWCU: 4" return line.  FW: 24" supply line A.  Main Steam: 28" M.S. Line A. 3/4" packing bleedoffs & misc. dis. on F.W. Line A. & 24" M.S. Line A.  ALL IN AREA	NO NIE	10/15

15-6 West 5650 STLS  
of R15  
8-3/4" north  
of P

15-6 West 5650 STLS  
of R15  
8-3/4" north  
of P

15-6 West 5650 STLS  
of R15  
8-3/4" north  
of P

15-6 West 5650 STLS  
of R15  
8-3/4" north  
of P

15-6 West 5650 STLS  
of R15  
8-3/4" north  
of P

15-6 West 5650 STLS  
of R15  
8-3/4" north  
of P

15-6 West 5650 STLS  
of R15  
8-3/4" north  
of P

15-6 West 5650 STLS  
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15-6 West 5650 STLS  
of R15  
8-3/4" north  
of P

15-6 West 5650 STLS  
of R15  
8-3/4" north  
of P

15-6 West 5650 STLS  
of R15  
8-3/4" north  
of P

15-6 West 5650 STLS  
of R15  
8-3/4" north  
of P

APPENDIX C

REMP  
111

1E RUIETIA 00-11

ALACRION ISLAND  
FLOOR EL 519.0'

1E RUIETIA 00-11

SH.1

LOCATION	ELEV AS TO	INSTR NO	TYPE WALK STANDING	WALL HEIGHT	AFFECTED SAFETY RELATED EQUIPMENT				ELECTRICAL EQUIP	CON
					MECHANICAL	ELECTRICAL	DIESEL & POWER	ELECTRICAL		
WEST OF (57) & NORTH OF (4)	SIRO 519.0	461410-10	UTILITY ELEVATOR	WALL 0'-7 1/2"	EECW: piping to RHR pmp & 10th Rm cooling units.	10"	NONE	10"	IN AREA	
		461410-2	PARTITION WALLS TYPE - S MORTAR	WALL 11'-0"	RB-RHC, RHR pmp & 10th Rm cooling units.					
				WALL 0'-11 1/2"	Reactor Bldg KNOXWASTE piping	NONE			NONE	
				WALL 11'-0"	RHR pmps 1B & 1D & RHR suction & disch				IE IN AREA	
				EAST AND WEST 0'-11 1/2"	Piping	NONE			NONE	
				WALL 15'-0" (2nd)	EECW: RHR pmp 1B & 10 SEAL WTR					
					RHR cross tie (1B&1D)					
					RHR pmps 1B & 1D disch, cross tie with Unit 2 disch.					
					Fuel Pooling Cooling return to RHR					
					all in area					

17205 17 5650

2

LOCATION	FLOOR OF	PAR. NO.	TYPE WALL SECTION WINDOW, ETC.	WALL SECTION	MECHANICAL	ELECTRICAL I.C.C.	ELECTRICAL DISINTEGRATION POWER	ELECTRICAL EQUIP C.C.P.	COMMENTS
WEST OF (97)	5650/5920	46W401-10	UTILITY ELEVATOR W/	EAST AND WEST 0'11 1/8"	EECW: Cooling WTR supply to RHR pump (M) coolers.	NONE	NONE	NO I.L. EQUIP IN AREA	
BETWEEN (94) & (95)		46W404-2	PARTITION WALLS TYPE-S MORTAR	WEST 0'5 3/4" (EACH)	EECW 18" south hdr.				
				NORTH AND SOUTH 0'11 1/8" WALL 10'10" (EACH)	All in area				

SH.6

LIFNP

UNIT 1

REACTOR BLDG.

FLOOR EL. 565.0'

6

OF

IE BULLETIN 80-11

LOCATION	ELEV F.L. TO	DWG. NO.	TYPE WALL (FUNCTION, MORTAR, ETC.)	WALL LENGTH (F.PIN TO F.PIN)	MECHANICAL	AFFECTED SHEET RELATED EQUIPMENT				COMMENTS
						ELECTRICAL I/C	ELECTRICAL WIRING & AIR POWER	ELECTRICAL EQUIP. C/G	IF EQUIP. MOUNTED SIDE OF WALL	
2'-5" NORTH OF (Y)	565.0589.0	WINTIS	SHIELD WALL 6"x6"x12" SOLID CONC BLOCK	4'-2" 2'-0"	EECW: 2 1/2" cooling Wtr. disch. from Core Spray RM. Cont. Inerting Sys. 2" N <sub>2</sub> (ties into 15" purge to Drywell).	NONE	NONE			
2'-0" WEST OF (RT)			FLUSH MORTAR JTS		Cooling Wtr. GLAND SEAL, & M-G Oil piping 2" RCW disch. from CRD pmps JA & ID. CONDENSATE STORAGE & supply. 8" supply to RHR All in area CRD Accum					



UNIT  
UNIT 1  
REACTOR BLDG  
ELEV EL 665.0'

IC BULLETIN 80-11

AFFECTED SAFETY RELATED EQUIPMENT

EV	TO	TIME WALL (FUNCTION, NUMBER, ETC)	WALL	MECHANICAL	ELECTRICAL	ELECTRICAL	CONNECTIONS
WEST OF (K7)	6390-4430	W.W. 404-2 W.W. 401-12	EAST AND WEST WALL 8'-10 1/8"	Nothing	NONE	NONE	IC 80-11 North Side of Wall
NORTH OF (U)		UTILITY ELEVATOR PARTITION WALLS 10'-5 3/4" EACH MORTAR TYPE-5	NORTH AND SOUTH 10'-10 1/8"				

UNIT 1  
REACTOR BLDG  
FLOOR EL 639.0'

IE Bulletin 80-11

AFFECTED SAFETY RELATED EQUIPMENT

LOCATION	UNIT NO	TYPE WALL CONSTRUCTION IN REACTOR BLDG	WALL THICKNESS	MECHANICAL	ELECTRICAL ICC	ELECTRICAL EQUIPMENT	REMARKS
5'-4" NORTH OF (P)	MIN 302 8	REACTOR CLEAN UP FILTER DENIM TANK ROOM	9'-8 1/2" 2'-0"	NONE	NONE	NONE	IE. Area of wall
WEST OF (P)	420' 65175	SHIELD WALL 4" x 6" x 12" SOLID CONC BLOCK W/ CORRUGATED METAL WALL TIES IN, HORIZ JTS. 3" O.C.					
		1/2" PORTAR JTS DENSITY-130 #/ft <sup>3</sup>					

DATE	TIME	INSTR. NO.	TYPE WALL (SECTION, WALL, FLOOR, CEILING, etc.)	MECHANICAL	ELECTRICAL	ELECTRICAL SYMBOL	REMARKS
EAST OF (R5)	5190	5630	NORTH WALL 8'-7 1/2"	RADIANT: REACTOR BLDG RADIANT SWAP PUMPS.	PNL 25-59, IN AREA	NONE	IE IN AREA
NORTH OF (U)		46W404-2 46W401-10	UTILITY ELEVATOR #2				
			PARTITION WALLS		NONE		NONE
			TYPE-S MORTAR		NONE		IE IN AREA
			EAST AND WEST 0'11 1/2" WALL 15'-6" EACH	ELEC: Supply to RHR pump & RHR cooling units. Misc. Seal WTR. piping to RHR pumps.			
				AS-NVAC: RHR pump & MTR. cooling units.			
				RHR: pumps 3B & 3D, RHR circulator & pumps 3B & 3D.			
				Full Pool Cooling: 8" return from RHR.			
				ALL IN AREA			

SH. 71A"

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3-

CONCRETE BLDG

LEVEL EL 5450'

IE BULLETIN 80-11

LOCATION	ELEVATION	DWN. NO.	TYPE WALL (PARTITION, WALL, ELEVATOR, ETC)	WALL CONSTRUCTION	MECHANICAL	AFFECTED SAFETY RELATED EQUIPMENT		
						ELECTRICAL I/C	ELECTRICAL WIRING & EQUIPMENT	ELECTRICAL CUT
EAST OF (RIS) BETWEEN (P 6 & U)	525.0 to 522.0	46W4010	UTILITY	EAST AND WEST WALL	RB-HVAC	NONE	NONE	No IE IN AREA
		46W4012	ELEVATOR #2	WEST WALL	Stair hall supply fan			
			PARTITION WALLS	10'5"	EECW Cooling wtr supply to RHR pump rm. coolers.			
			TYPE-5 MORTAR	NORTH AND SOUTH WALL	16" South Hdr.			
				10'10"	ALL IN AREA			

SH. 72

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UNIT 3

REACTOR BLDG

FLOOR EL 565.0

72

DATE

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COMPUTER

AFFECTED SAFETY RELATED EQUIPMENT

LOCATION	EL. V		DWG. N.	TYPE WALL (FUNCTION, WALL, INSULATION, ETC.)	WALL LENGTH, IN/FT	MECHANICAL	ELECTRICAL I & C	ELECTRICAL WIRING, ALL POWER	ELECTRICAL EQUIPMENT	COMMENTS
	FROM	TO								
EAST OF R/T	565.0	565.0	411011	R/W	4'2" 2'-0"	1" Disch from torus drywell DP Compressor	NONE	NONE	IE RIS. OF WALL	
2'-5" NORTH OF T				6" 12" 12" SOLID CONC. BLOCK		DP Compressor AFTER-COOLER Supply				
				FLUSH MORTAR JTS		ALL IN AREA				
						CRD Accum				