

REPORT DATE: November 23, 1983

REPORTABLE OCCURRENCE 83-045

OCCURRENCE DATE: October 25, 1983

ISSUE 0

Page 1 of 4

FORT ST. VRAIN NUCLEAR GENERATING STATION  
PUBLIC SERVICE COMPANY OF COLORADO  
16805 WELD COUNTY ROAD 19 1/2  
PLATTEVILLE, COLORADO 80651-9298

REPORT NO. 50-267/83-045/03-L-0

Final

IDENTIFICATION OF  
OCCURRENCE:

On October 25, 1983, with the reactor operating near 70% power, the Halon 1301 system for the Three-Room Complex was taken out of service for a modification. The Three-Room Complex isolation dampers were also temporarily configured (electrically) during the performance of the modification to remain in their normal operating positions. These events constitute operation in a degraded mode of LCOs 4.10.1 and 4.10.2 and are reportable per Fort St. Vrain Technical Specification AC 7.5.2(b)2.

EVENT  
DESCRIPTION:

The Halon 1301 system is capable of totally flooding one or more rooms within the Three-Room Complex with a uniform 5% (by volume) concentration of Halon 1301 fire extinguishing agent within ten seconds of actuation. Normal actuation is by manual or automatic means for the Auxiliary Electric Room and 480 Volt Switchgear Room, and by manual means only for the Control Room.

On October 25, 1983, at 0635, with the reactor operating at approximately 70% power, the Halon system for the Three-Room Complex (Control Room, Auxiliary Electric Room and the 480 Volt Switchgear Room) was removed from service to perform an approved plant modification via Change Notice (CN) 1722. Appropriate compensatory measures were taken during the Halon outages.

At 1720 hours on October 25, 1983, the Halon system was returned to normal operation following completion of the portion of CN 1722 performed that day via Controlled Work Procedure (CWP) 83-124.

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n, at 1050 hours on October 26, 1983, the Halon system was removed from service, with proper compensatory measures placed in affect, to continue modification work per CN 1722. This work also involved relocating an electrical conduit run, which contained a portion of the control circuit for the isolation dampers of the Three-Room Complex. In order to perform the relocation, these circuits had to be deenergized. Several electrical jumpers were placed in the isolation damper control circuit to maintain proper ventilation within the Three-Room Complex via an approved Temporary Configuration Report (TCR). The TCR allowed the isolation dampers to remain in their normal operating positions while the modification work was being performed.

At 1700 hours on October 26, 1983, the electrical jumpers installed via the TCR were removed, and the affected isolation dampers were returned to normal operation.

On October 27, 1983, at 1657 hours, the Halon system was returned to normal service following completion of all modification work associated with CN 1722. The compensatory measures were no longer required.

CAUSE  
DESCRIPTION:

Other.

The Halon 1301 system and associated isolation dampers in the Three-Room Complex were removed from service to perform modification work associated with Change Notice 1722. The purpose of the modification was to relocate several piping and electrical conduit runs to provide clearance for access routes to a new plant addition. The removal of the systems did not affect reactor operation in any way.

CORRECTIVE  
ACTION:

During the modification process, compensatory measures were initiated to provide necessary fire protection as follows:

- a) Continuous firewatch personnel were stationed both inside and outside the affected areas during periods of Halon 1301 system outages.
- b) The Halon 1301 system could have been manually actuated within a short period of time, if needed.
- c) The isolation dampers were temporarily configured via an approved Temporary Configuration Report (8310006).

Modification work associated with CN 1722, CWP 83-124, was completed at 1657 hours on October 27, 1983. All systems were returned to normal operation within the 72 hour grace periods allowed by LCOs 4.10.1 and 4.10.2.

No further corrective action is anticipated or required.

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CONTROL BLOCK: 

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(PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)

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REPORT SOURCE

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60	61									68	69					74	75							80
DOCKET NUMBER											EVENT DATE							REPORT DATE						

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

On October 25, 1983, with reactor operating at power, the Halon 1301 system for the Three-Room Complex (Control Room, Auxiliary Electric Room and 480 Volt Switchgear Room) was taken out of service to perform a plant modification. Also during the modification work, the automatic function of a portion of the Three-Room Complex isolation dampers was removed. These events constitute operation in degraded modes of LCO 4.10.1 and 4.10.2 and are reportable per Fort St. Vrain Technical Specification AC 7.5.2(b)2. No affect on public health or safety. No similar reports.

7 8 9		SYSTEM CODE		CAUSE CODE		CAUSE SUBCODE		COMPONENT CODE						COMP. SUBCODE		VALVE SUBCODE			
0 9		A B		X		Z		Z Z Z Z Z Z						Z		Z			
7 8		9 10		11 12		12 13		13 14 15 16 17 18						19 20		21 22			
(17) LER/RO REPORT NUMBER		EVENT YEAR		SEQUENTIAL REPORT NO.		OCCURRENCE CODE		REPORT TYPE						REVISION NO.					
8 3		8 3		0 4 5		0 3		L						0					
21 22		23 24		25 26		27 28		29 30 31 32 33 34						35 36		37 38			
ACTION TAKEN		FUTURE ACTION		EFFECT ON PLANT		SHUTDOWN METHOD		HOURS						ATTACHMENT SUBMITTED		NPRD-4 FORM SUB.		PRIME COMP. SUPPLIER	
F		Z		Z		Z		0 0 0 0						Y		N		Z	
18 19		20 21		22 23		24 25		26 27 28 29 30 31						32 33		34 35		36 37	
39 40		41 42		43 44		45 46		47 48 49 50 51 52						53 54		55 56		57 58	
59 60		61 62		63 64		65 66		67 68 69 70 71 72						73 74		75 76		77 78	

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

1 0 A plant modification required several piping and electrical conduit runs to be relocated.

1 1 These runs affected Halon supply piping and the Three-Room Complex isolation damper

1 2 control circuit. During the modification, appropriate compensatory measures were

1 3 initiated. The modification process was completed and affected systems returned to

1 4 normal operation within the 72 hour grace periods allowed. No further corrective actions

7 8 9 are anticipated or required.

7 8 9 are anticipated or required.

FACILITY STATUS		% POWER		OTHER STATUS (30)		METHOD OF DISCOVERY		DISCOVERY DESCRIPTION (32)					
1	5	E	(28)	0	6	7	(29)	N/A	(30)	Z	(31)	N/A	(32)

ACTIVITY CONTENT  
RELEASED OF RELEASE AMOUNT OF ACTIVITY (35)  
1 6 [Z] (33) [Z] (34) N/A  
44

LOCATION OF RELEASE (36)  
N/A  
45 80

PERSONNEL EXPOSURES										
NUMBER			TYPE	DESCRIPTION (39)						
1	7	0	0	0	(37)	Z	(38)	N/A		

PERSONNEL INJURIES		DESCRIPTION (41)	
NUMBER			
1	8	0	0
0	0	0	40
		N/A	

LOSS OF OR DAMAGE TO FACILITY (43)  
TYPE DESCRIPTION  
1 9 Z (42) N/A

ISSUED 20 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 4

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