



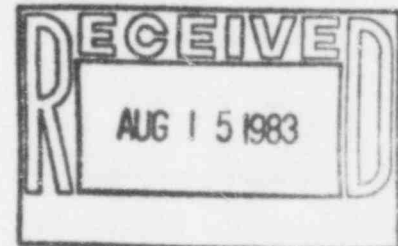
# Public Service Company of Colorado

16805 WCR 19 1/2, Platteville, Colorado 80651

50-267

August 8, 1983  
Fort St. Vrain  
Unit #1  
P-83273

Mr. John T. Collins, Regional Administrator  
Region IV  
U. S. Nuclear Regulatory Commission  
611 Ryan Plaza Drive  
Suite 1000  
Arlington, TX 76011



SUBJECT: Revision to the Fort  
St. Vrain Seismic  
Class I Snubber List

REFERENCE: PSC Letter, Lee to Collins  
Dated May 20, 1983 (P-83180)

Dear Mr. Collins:

Attached is a revised listing of the Seismic Class I snubbers at Fort St. Vrain. All snubbers new to the list are identified with an asterisk and were added as a result of the Seismic Redocumentation Program completed this year. Addition of Class I snubbers without an immediate Technical Specification Amendment request is permitted by Fort St. Vrain specification LCO 4.3.10(e).

In the referenced letter, Public Service Company requested an amendment to Section 4.3 and 5.3 of the Fort St. Vrain Technical Specifications. A supplement to that request incorporating the revised Class I snubber list will follow pending review by our Nuclear Facility Safety Committee.

All hydraulic snubbers on the attached list can be demonstrated operable per the criteria specified in both the present specifications and those proposed in the referenced letter. The mechanical snubbers, however, can only be demonstrated operable per the criteria presented in IE Bulletin 79-14 at this time due to a lack of testing equipment for mechanical snubbers.

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The arrival of a testing device for mechanical snubbers is expected in mid-August. Following its installation and the completion of any associated personnel training, a program to demonstrate the operability of the mechanical snubbers per the criteria proposed in the referenced letter will be initiated.

If you have any questions, please contact Mr. Frank Novachek at (303) 785-2224, extension 270.

Very truly yours,

*Don W. Warembourg by Milt McBride*

Don W. Warembourg  
Manager, Nuclear Production

Attachments

DWW/djm

SYSTEM 11

Loop I

HELIUM VENT SNUBBERS

HVS-1-1 \*  
HVS-1-2 \*

HVS-2-1 \*  
HVS-2-2 \*

HVS-3-1 \*  
HVS-3-2 \*

HVS-4-1 \*  
HVS-4-2 \*

SYSTEM 21

Loop I

EMERGENCY BOILER FEED SNUBBERS

BFS-141E	BFS-210E	BFS-260E	BFS-359E *
BFS-142E	BFS-216E	BFS-263E	BFS-364E *
BFS-143E	BFS-218E	BFS-264E	BFS-366E *
BFS-154E	BFS-219E	BFS-268E	BFS-367E *
BFS-158E	BFS-228E	BFS-269E	BFS-374E *
BFS-167E	BFS-229E	BFS-316E *	BFS-380E *
BFS-181E	BFS-243E	BFS-317E *	BFS-398E
BFS-197E	BFS-244E	BFS-320E *	BFS-399E
BFS-203E	BFS-245E	BFS-344E *	BFS-405E
BFS-204E	BFS-257E	BFS-345E *	

SYSTEM 21

Loop II

EMERGENCY BOILER FEED SNUBBERS

BFS-14E  
BFS-15E  
BFS-16E  
BFS-26E

BFS-29E  
BFS-30E  
BFS-31E  
BFS-47E

BFS-53E  
BFS-56E  
BFS-57E  
BFS-74E

BFS-76E  
BFS-77E  
BFS-89E  
BFS-122E

SYSTEM 21

Common

BOILER FEED SNUBBERS

BFS-870

BFS-871

TURBINE WATER DRAIN SNUBBERS

TWDS- 1

TWDS- 2

TWDS- 3

TWDS- 4

TWDS- 5

TWDS- 6

TWDS- 7

TWDS- 8

TWDS- 9

TWDS-10

TWDS-12 \*

TWDS-13 \*

TWDS-14 \*

SYSTEM 22

Loop I

BOILER FEED SNUBBERS - STEAM GENERATORS

BFS-B1-1	BFS-B-1-4
BFS-B1-2	BFS-B-1-5
BFS-B-1-3	BFS-B-1-6

EMERGENCY BOILER FEED SNUBBERS

BFS-414E	BFS-421E
BFS-417E	BFS-422E
BFS-419E	BFS-423E

BOILER FEED SNUBBERS

BFS-397	BFS-564	BFS-641	BFS-796
BFS-398	BFS-566	BFS-679	BFS-820
BFS-400	BFS-573	BFS-711	BFS-823
BFS-402	BFS-577	BFS-763	BFS-843
BFS-563	BFS-614	BFS-764	BFS-844

COLD REHEAT SNUBBERS - CIRCULATORS

CRS-C-1-1	CRS-C-1-4	CRS-C-2-1	CRS-C-2-4
CRS-C-1-2	CRS-C-1-5	CRS-C-2-2	CRS-C-2-5
CRS-C-1-3	CRS-C-1-6	CRS-C-2-3	CRS-C-2-6

COLD REHEAT SNUBBERS

CRS-229	CRS-589	CRS-751	CRS-822	CRS-838 *
CRS-382 *	CRS-591	CRS-752	CRS-827 *	CRS-870 *
CRS-476	CRS-632	CRS-765 *	CRS-828 *	CRS-871 *
CRS-521	CRS-664	CRS-766 *	CRS-829 *	CRS-872 *
CRS-549	CRS-674	CRS-768 *	CRS-831 *	CRS-879 *
CRS-556-1	CRS-707	CRS-769 *	CRS-832 *	CRS-880 *
CRS-557	CRS-742	CRS-821	CRS-836 *	CRS-881 *

HOT REHEAT SNUBBERS

HRS-243	HRS-289	HRS-324	HRS-357	HRS-414
HRS-244	HRS-314	HRS-348	HRS-378	HRS-416
HRS-246	HRS-315	HRS-349	HRS-379	HRS-421
HRS-278	HRS-318	HRS-351	HRS-381	HRS-422
HRS-279	HRS-321	HRS-356	HRS-413	HRS-990
HRS-281				

SYSTEM 22

Loop I

MAIN STEAM SNUBBERS

MSS-239	MSS-284	MSS-347	MSS-421	MSS-909 *
MSS-246	MSS-291	MSS-348	MSS-422	MSS-911 *
MSS-247	MSS-304	MSS-356	MSS-424	MSS-912 *
MSS-248	MSS-311	MSS-369	MSS-431	MSS-988
MSS-249	MSS-312	MSS-376	MSS-433	
MSS-257	MSS-314	MSS-377	MSS-451 *	
MSS-258	MSS-321	MSS-379	MSS-901 *	
MSS-274	MSS-339	MSS-414	MSS-906 *	
MSS-281	MSS-346			

VENT STACK SNUBBERS

VSS-101	VSS-104	VSS-107	VSS-110	VSS-111
VSS-102	VSS-105	VSS-108		



SYSTEM 22

Loop II

BOILER FEED SNUBBERS - STEAM GENERATORS

BFS-B-2-1	BFS-B-2-4
BFS-B-2-2	BFS-B-2-5
BFS-B-2-3	BFS-B-2-6

BOILER FEED SNUBBERS

BFS-54	BFS-416	BFS-516	BFS-530
BFS-142	BFS-437	BFS-523	BFS-532
BFS-149	BFS-451	BFS-526	BFS-534
BFS-297	BFS-467 *	BFS-528	BFS-536
BFS-352	BFS-468 *	BFS-529	BFS-537

COLD REHEAT SNUBBERS - CIRCULATORS

CRS-C-3-1	CRS-C-3-4	CRS-C-4-1	CRS-C-4-4
CRS-C-3-2	CRS-C-3-5	CRS-C-4-2	CRS-C-4-5
CRS-C-3-3	CRS-C-3-6	CRS-C-4-3	CRS-C-4-6

COLD REHEAT SNUBBERS

CRS-29	CRS-146	CRS-317-2	CRS-377 *	CRS-422 *
CRS-31	CRS-187	CRS-320 *	CRS-378 *	CRS-431 *
CRS-72	CRS-191	CRS-321 *	CRS-379 *	CRS-474
CRS-76	CRS-219	CRS-323 *	CRS-381 *	CRS-517
CRS-104	CRS-262	CRS-324 *	CRS-386 *	CRS-636
CRS-114	CRS-297	CRS-371	CRS-388 *	
CRS-144	CRS-317-1	CRS-372	CRS-389 *	

HOT REHEAT SNUBBERS

HRS-23	HRS-69	HRS-104	HRS-158	HRS-196
HRS-24	HRS-94	HRS-105	HRS-159	HRS-201
HRS-26	HRS-95	HRS-128	HRS-161	HRS-202
HRS-58	HRS-98	HRS-129	HRS-193	HRS-205
HRS-59	HRS-101	HRS-131	HRS-194	HRS-985
HRS-61	HRS-103			

SYSTEM 22

Loop II

MAIN STEAM SNUBBERS

MSS-9	MSS-52	MSS-116	MSS-149	MSS-222
MSS-16	MSS-54	MSS-117	MSS-184	MSS-225 *
MSS-17	MSS-61	MSS-118	MSS-191	MSS-227 *
MSS-18	MSS-64	MSS-125	MSS-192	MSS-774 *
MSS-19	MSS-74	MSS-126	MSS-194	MSS-778 *
MSS-27	MSS-81	MSS-139	MSS-201	MSS-779 *
MSS-29	MSS-82	MSS-146	MSS-204	MSS-835 *
MSS-44	MSS-84	MSS-147	MSS-206	MSS-836 *
MSS-51	MSS-109			

VENT STACK SNUBBERS

VSS-113	VSS-116	VSS-119	VSS-122	VSS-124 *
VSS-114	VSS-117	VSS-120	VSS-123	

SYSTEM 22

Loop I Bypass

BOILER FEED SNUBBERS

BFS-412	BFS-421	BFS-422	BFS-425
BFS-420			

MAIN STEAM SNUBBERS

MSS-85-1 *	MSS-135-1	MSS-145-2	MSS-145-3
MSS-85-2 *	MSS-145-1		

SYSTEM 22

Loop II Bypass

MAIN STEAM SNUBBERS

MSS-95B *	MSS-120-1	MSS-120-2	MSS-120-3
MSS-95C *			

BOILER FEED SNUBBERS

BFS-434-1	BFS-434-2	BFS-434-3	BFS-435
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SYSTEM 22

Common

BOILER FEED SNUBBERS

BFS-553-1	BFS-556	BFS-922 *	BFS-933 *
BFS-553-2			

EMERGENCY BOILER FEED SNUBBERS

BFS-430E	BFS-432E	BFS-442E	BFS-444E
BFS-431E			

EMERGENCY CONDENSATE SNUBBERS

ECS-1	ECS-8 *	ECS-15-1 *	ECS-21 *
ECS-2	ECS-9 *	ECS-15-2 *	ECS-22 *
ECS-3	ECS-10 *	ECS-16 *	ECS-23 *
ECS-4	ECS-11 *	ECS-17 *	ECS-24 *
ECS-5	ECS-12 *	ECS-18 *	ECS-25 *
ECS-6	ECS-13 *	ECS-19 *	
ECS-7	ECS-14 *	ECS-20 *	

SYSTEM 31

Common

BOILER FEED SNUBBERS

BFS-8 *	BFS-110 *	BFS-211 *	BFS-325 *
BFS-25 *	BFS-117 *	BFS-216 *	BFS-358 *
BFS-28 *	BFS-138	BFS-221 *	BFS-477
BFS-35 *	BFS-139	BFS-235 *	BFS-479
BFS-40 *	BFS-152	BFS-239 *	BFS-498
BFS-53 *	BFS-153	BFS-256 *	BFS-500
BFS-53A *	BFS-166	BFS-256-1 *	BFS-501
BFS-61 *	BFS-210 *	BFS-282 *	
BFS-97 *			

SYSTEM 52

Loop I

MAIN STEAM SNUBBERS

MSS-831 *	MSS-834 *	MSS-869 *	MSS-871 *
MSS-833 *	MSS-862 *	MSS-870 *	

Loop I Bypass

MAIN STEAM SNUBBERS

MSS-822-1

Loop II

MAIN STEAM SNUBBERS

MSS-696 *	MSS-717 *	MSS-719 *	MSS-721 *
MSS-706 *	MSS-718 *		

Common

COLD REHEAT SNUBBERS

CRS-445 *	CRS-921 *	CRS-962 *	CRS-972 *
CRS-446 *	CRS-931 *	CRS-964 *	CRS-976 *
CRS-902 *	CRS-951 *	CRS-967 *	CRS-977 *
CRS-910 *	CRS-955 *	CRS-969 *	CRS-978 *
CRS-911 *			

SYSTEM 52

Common

HOT REHEAT SNUBBERS

HRS-220 *	HRS-507 *	HRS-561 *	HRS-958 *
HRS-468 *	HRS-515 *	HRS-566 *	HRS-961 *
HRS-470 *	HRS-520 *	HRS-571 *	HRS-966 *
HRS-501 *	HRS-525 *	HRS-576 *	HRS-971 *
HRS-505 *	HRS-540 *	HRS-577 *	HRS-972 *
HRS-506 *	HRS-546 *	HRS-957 *	

MAIN STEAM SNUBBERS

MSS-452 *	MSS-495 *	MSS-584 *
MSS-453 *	MSS-583A *	MSS-688 *

SYSTEM 91

Loop I

BOILER FEED SNUBBERS

BFS-572

HOT REHEAT SNUBBERS

HRS-420

MAIN STEAM SNUBBERS

MSS-987 \*

MSS-988 \*

HYDRAULIC OIL SNUBBERS

GROUP I

HOS-1	HOS-5	HOS-9	HOS-14
HOS-2	HOS-6	HOS-10	HOS-17
HOS-3	HOS-7	HOS-11	HOS-87
HOS-4-1	HOS-8	HOS-13	HOS-88
HOS-4-2			

GROUP II

HOS-15	HOS-18	HOS-20	HOS-91 *
HOS-16	HOS-19	HOS-21	

GROUP III

HOS-23	HOS-25	HOS-28	HOS-30
HOS-24	HOS-27	HOS-29	

GROUP IV

HOS-31	HOS-35	HOS-37	HOS-85
HOS-33	HOS-36	HOS-38	HOS-86
HOS-34			



SYSTEM 91

Loop II

COLD REHEAT SNUBBERS

CRS-420 \*      CRS-421 \*

HYDRAULIC OIL SNUBBERS

GROUP I

HOS-22	HOS-59	HOS-64	HOS-72
HOS-55	HOS-60	HOS-65	HOS-73
HOS-56	HOS-61	HOS-66	HOS-89
HOS-57	HOS-63	HOS-71	HOS-90
HOS-58			

GROUP II

HOS-39	HOS-42	HOS-49	HOS-75
HOS-40	HOS-48	HOS-74	HOS-76
HOS-41			

GROUP III

HOS-45	HOS-50	HOS-51	HOS-52
HOS-46			

GROUP IV

HOS-53	HOS-78	HOS-81	HOS-83
HOS-54	HOS-79	HOS-82	HOS-84
HOS-77	HOS-80		

MECHANICAL SNUBBERS \*

SYSTEM 22

22- 7-SN1	22-23-SN2	22- 73-SN1	22-128-SN1
22-11-SN1	22-30-SN1	22- 73-SN2	22-132-SN1
22-23-SN1	22-68-SN1	22-100-SN1	22-132-SN2

SYSTEM INSTRUMENTATION

I-72-SN1	I-73-SN2	I-179-SN1	I-179-SN2
I-73-SN1			

VENT STACK SNUBBERS

VSS-103	VSS-109	VSS-115	VSS-121
VSS-106	VSS-112	VSS-118	