

AUG 14 1990

In Reply Refer To:
Docket: 50-267

Public Service Company of Colorado
ATTN: A. Clegg Crawford, Vice President
Nuclear Operations
P.O. Box 840
Denver, Colorado 80201-0840

Dear Mr. Crawford:


This acknowledges your August 9, 1990, visit to NRC Region IV. Thank you for informing me and my staff of the status of your actions with respect to the defueling and decommissioning of Fort St. Vrain. As we discussed during our meeting, I would appreciate your continuing to keep Region IV fully informed concerning activities at Fort St. Vrain.

Sincerely,

Original signed by
Robert D. Martin
Regional Administrator

cc:
Public Service Company of Colorado
ATTN: D. W. Warembourg, Manager
Nuclear Engineering Division
P.O. Box 840
Denver, Colorado 80201-0840

GA International Services Corporation
Fort St. Vrain Services
ATTN: David Alberstein, Manager
P.O. Box 85608
San Diego, California 92138

 RIV:DD:DRP
TPWynn
8/13/90

RA
RDMartin
8/14/90

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PDR ADOCK 05000267
P FDC

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Public Service Company of
Colorado

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Public Service Company of Colorado
ATTN: Charles H. Fuller, Manager
Nuclear Production and Station
Manager
16805 Weld County Road 19-1/2
Platteville, Colorado 80651

Public Service Company of Colorado
ATTN: H. L. Brey, Manager, Nuclear
Licensing and Resource
Management Division
P.O. Box 840
Denver, Colorado 80201-0840

Public Service Company of Colorado
ATTN: P. F. Tomlinson, Manager
Quality Assurance Division
16805 Weld County Road 19-1/2
Platteville, Colorado 80651

Public Service Company of Colorado
ATTN: D. D. Hock, President and
Chief Executive Officer
P.O. Box 840
Denver, Colorado 80201-0840

Public Service Company of Colorado
ATTN: Commitment Control Program
Coordinator
2420 W. 26th Ave. Suite 100-D
Denver, Colorado 80211

Kelley, Standfield & O'Donnell
ATTN: Mr. J. K. Tarpey
Public Service Company Building
Room 900
550 15th Street
Denver, Colorado 80202

Chairman
Board of County Commissioners
of Weld County, Colorado
Greeley, Colorado 80631

Regional Representative
Radiation Programs
Environmental Protection Agency
1 Denver Place
999 18th Street, Suite 1300
Denver, Colorado 80202-2413

Public Service Company of
Colorado

-3-

Department of Health
ATTN: Robert M. Quillen, Director
Radiation Control Division
4210 East 11th Avenue
Denver, Colorado 80220

Colorado Public Utilities Commission
ATTN: Ralph Teague, P.E.
1580 Logan Street OL1
Denver, Colorado 80203

Enclosure: Defueling and Decommissioning Update w/bcc only

bcc to DMB (IE45)

bcc distrib. by RIV:

R. D. Martin

DRP

DRSS-FRPS

Pete Erickson, NRR Project Manager (MS: 10-D-21)

RIV File

Resident Inspector

DRP/TSS

Lisa Shea, RM/ALF

FORT ST. VRAIN

DEFUELING AND DECOMMISSIONING UPDATE



JULY 25, 1990
JULY 26, 1990
JULY 30, 1990
AUGUST 3, 1990



Public Service®

Public Service Company of Colorado

FORT ST. VRAIN

DEFUELING AND DECOMMISSIONING UPDATE



JULY 25, 1990
JULY 26, 1990
JULY 30, 1990
AUGUST 3, 1990



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Public Service Company of Colorado

AGENDA

- I. Fort St. Vrain Status
- ii. Decommissioning Options
 - Early Dismantlement
 - SAFSTOR
- III. Decommissioning Decision and Funding
- IV. PSC/NRC Interactions
- V. Conclusions

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- I. Fort St. Vrain Status
- II. Decommissioning Options
 - Early Dismantlement
 - SAFSTOR
- III. Decommissioning Decision and Funding
- IV. PSC/NRC Interactions
- V. Conclusions

FORT ST VRAIN STATUS

Defueling to fuel storage wells completed on February 6, 1990

- * Defueling suspended until shipping can be initiated
- * Two of three shipping casks loaded and prepared for shipment

Shipping schedule capability improved by 52% - from thirty-one months to fifteen months

Employee Retention - As of July 6, 1990

- * Total PSC personnel - 324
- * Total Contract personnel - 155
- * 20 resignations since Retention Plan implementation in February 2, 1989 - (3.9%)
- * Total separations with one year severance - 93
- * Total Early retirements - 3
- * Eighty employees placed within PSC since February 2, 1989 (100% of those desiring this option)

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FORT ST. VRAIN STATUS - Continued

Recent Department of Energy Actions

- * DOE informally commits to taking all Fort St. Vrain spent fuel
- * DOE provides tentative target dates
 - 1 shipment per week beginning August 1990
 - Up to 7 shipments per week beginning February 1991
 - Target dates allow completion of fuel shipping by December 1991

Independent Spent Fuel Storage Installation (ISFSI) Contingency

- * Total reliance upon DOE deemed not prudent
- * Foster-Wheeler selected to design and construct ISFSI
- * NRC Part 72 License application submitted June 22, 1990
- * Anticipate NRC to issue Environmental Assessment by February 1, 1991
 - Facility construction to begin in February 1991
 - Construction complete by approximately December 1991
 - Defueling to ISFSI could be completed by mid-1992

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DECOMMISSIONING OPTIONS

Early Dismantlement With Independent Power Producer (IPP)

- * Fixed price bids received from four vendors in May 1990
- * All bidders provided entrepreneurial approach of IPP
- * Decommissioning and conversion complete by April, 1995
- * No additional write-down required - funded by New Entity

SAFSTOR

- * Preliminary Decommissioning Plan submitted
- * Place into SAFSTOR until 2043
- * Decommission Fort St. Vrain from 2043 to 2046
- * Additional \$15 million write-down

DECOMMISSIONING OPTIONS

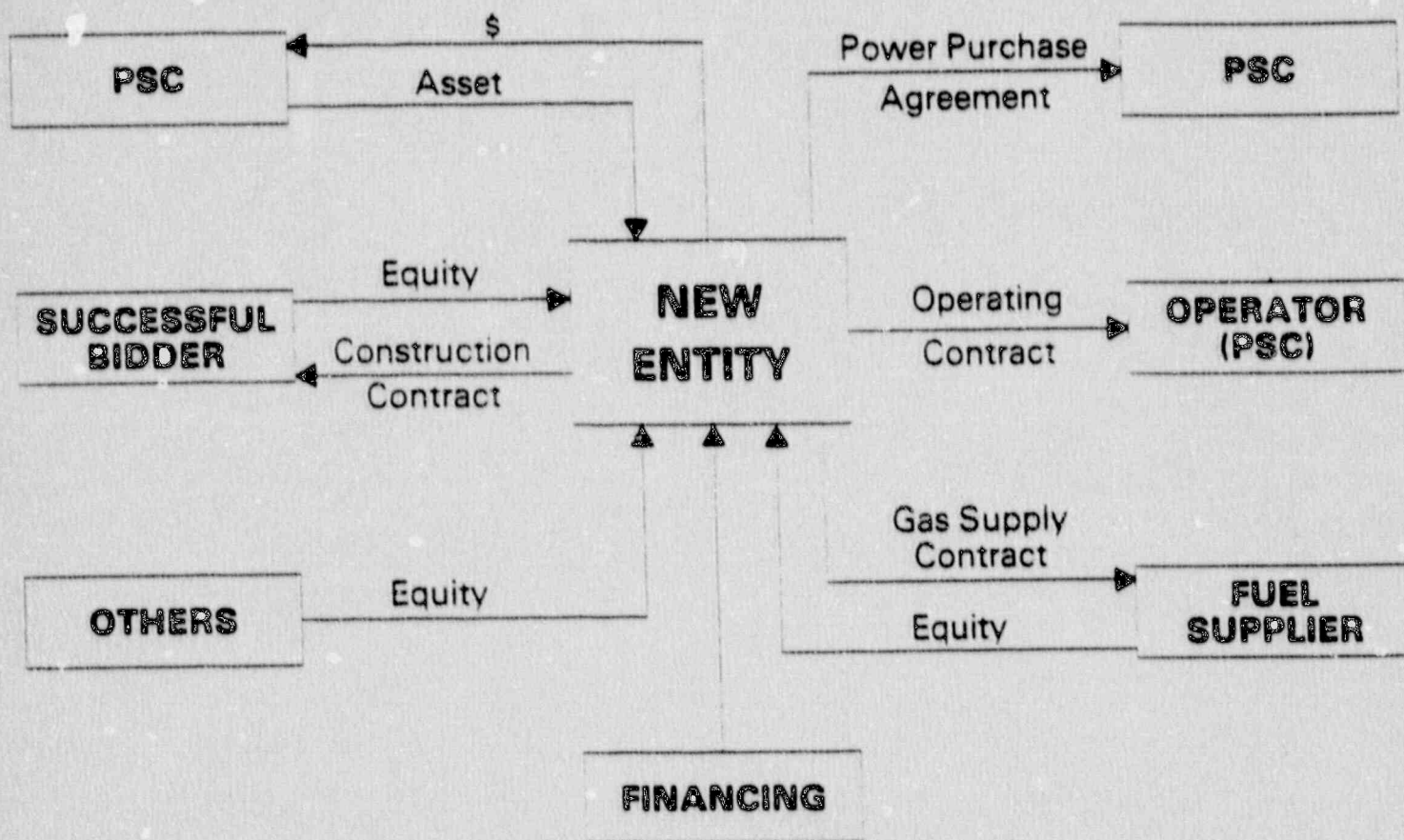
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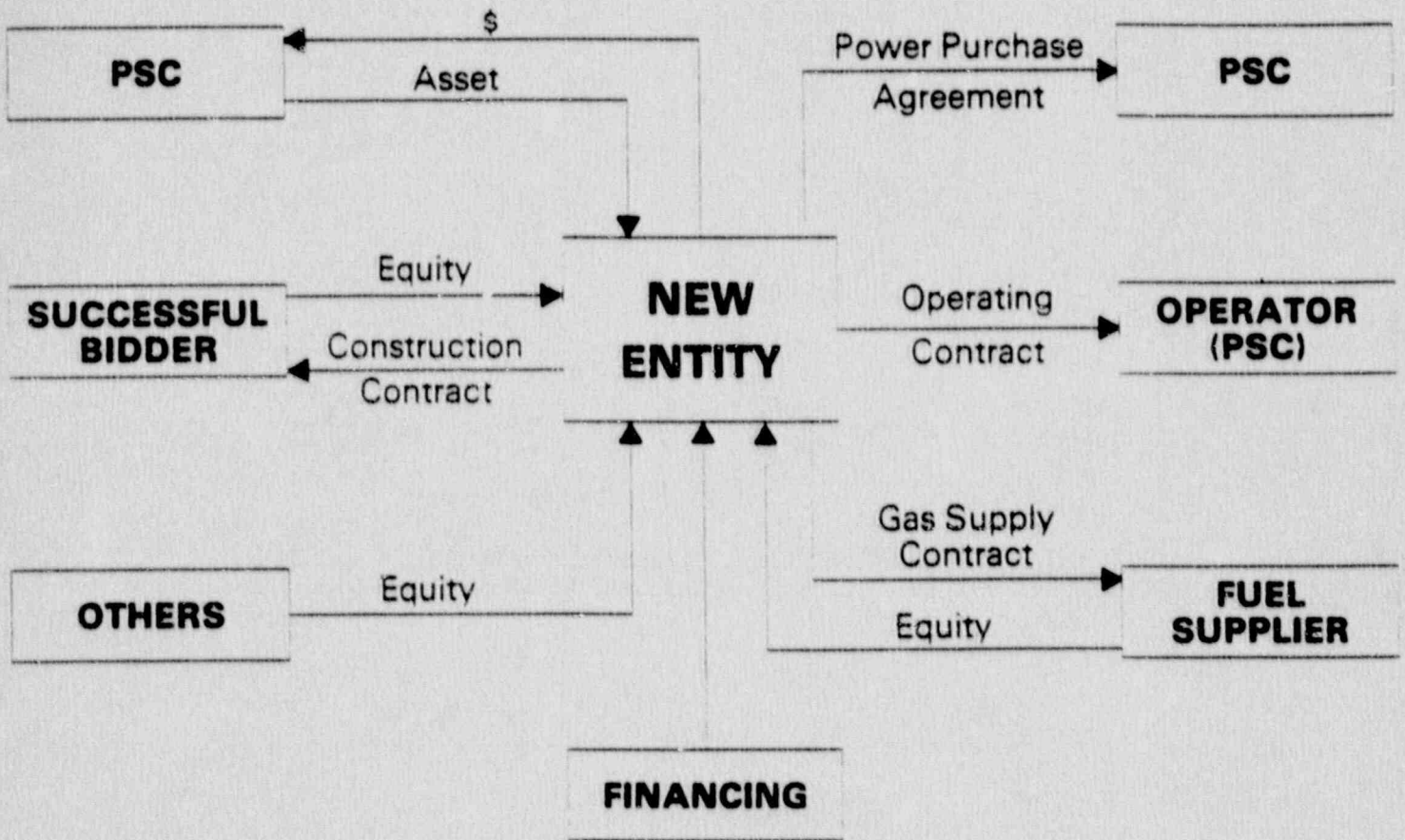
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DECOMMISSIONING OPTIONS - Continued

Early Dismantlement Positive Considerations

- * Early dismantlement costs are less than SAFSTOR
- * Risk to corporation quantifiable
- * Fort St. Vrain ceases to be liability in near future
- * Fixed price bid received for decommissioning
- * Bidders have shown eagerness for decommissioning experience at a full size reactor
- * Regulatory environment is better understood today
- * Public concern is low at this time
- * Current technology is adequate

Early Dismantlement Negative Considerations

- * Requires funds immediately to decommission
- * Worker exposure for early dismantlement is higher than for SAFSTOR but still anticipated to be approximately one-sixth of that at an operating light water reactor

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DECOMMISSIONING OPTIONS - Continued

SAFSTOR Positive Considerations

- * Radiation levels will decrease by 2043
- * Decommissioning technology is likely to improve by 2043

SAFSTOR Negative Considerations

- * Future waste disposal costs not fully quantifiable
- * Future risk to the corporation cannot be fully quantified
- * Radiation levels will still require remote handling
- * Regulatory environment not predictable - may be more complex
- * Public attitude in 2043 is unknown
- * Price-Anderson liability exits until license is terminated
- * Requires continuing site security, maintenance, etc.

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DECOMMISSIONING DECISION AND FUNDING

PSC DECISION

- * On June 26, 1990, Board of Directors concurred with recommendation to pursue early dismantlement with IPP
- * PSC plans to submit Proposed Decommissioning Plan reflecting early dismantlement in fourth quarter of 1990 10/21
- * Decommissioning and conversion will commence upon completion of defueling

FUNDING

- * Early dismantlement financing
 - All funds will be accrued by end of 1991
 - Regulatory approval required
- * SAFSTOR financing
 - Preliminary Financial Plan submitted in June, 1989
 - PSC/NRC meetings to discuss funding proposals
 - Exemption request regarding period of decommissioning fund accumulation submitted in March, 1990
 - Funds will be accrued in trust to year 2008

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PSC/NRC INTERACTIONS

Possession Only License

- * Noticed in Federal Register on May 16, 1990
- * PSC is uncertain of status of NRC review

Component Removal

- * Selected components will be removed in conjunction with defueling activities
- * Technical Specifications changes to support component removal submitted July 20, 1990

Program Redefinitions

- * Technical Specification changes to support completion of defueling submitted April 26, 1990
- * Application for Amendment to Physical Security Plan submitted June 6, 1990
- * Defueling Radiological Emergency Response Plan submitted on June 15, 1990
- * Exemption request on property insurance to be submitted August 10, 1990

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CONCLUSIONS

PSC Remains Committed to Compliance with the Existing License and Applicable Regulatory Requirements

Safety Will Not be Compromised Throughout Defueling and Decommissioning

Defueling will Continue as Soon as DOE is Ready to Accept Spent Fuel

Early Dismantlement Will be Pursued as the Decommissioning Option

Decommissioning Funding is Assured Regardless of Option Selected

NRC Reviews/Approvals

<u>Submittal</u>	<u>Need Date</u>
Possession Only License	8/90
Physical Security Plan Amendment Request	10/90
Defueling Emergency Response Plan Revision	8/90
ISFSI Environmental Assessment	1/91
Proposed Decommissioning Plan	11/91

PSC Has Seen Significant and Beneficial Effort by the NRC to Resolve Fort St. Vrain Issues

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