



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

OCT 06 1980

Generic Task No. A-12

58-390

All Power Reactor Licensees and Applicants

MA/4

Subject: Implementation of Guidance From Unresolved Safety Issue
A-12, "Potential For Low Fracture Toughness and Lamellar
Tearing on Component Supports"

Gentlemen:

As you are aware, NUREG-0577 (Potential for Low Fracture Toughness and Lamellar Tearing on PWR Steam Generator and Reactor Coolant Pump Supports) was issued in its "For Comment" form in November 1979. Additional guidance regarding implementation was issued by letters dated May 19, 1980 (licensees) and May 20, 1980 (applicants). A significant difference between NUREG-0577 and the criteria contained in the May 19th and 20th letters was the removal, in the letters, of the option of using linear elastic fracture mechanics analyses to demonstrate adequate structural integrity. The largest single response by applicants and licensees to the May 19 and 20 letters indicated a desire to retain linear elastic fracture mechanics analyses as an alternative means to demonstrate adequate structural integrity. Because of the response received due to this change, the NRC staff convened a meeting on August 27, 1980 to resolve the differences in the proposed programs. The summary of this meeting is attached. You should especially note these items of importance: (1) No action is required on your part at this time regarding lamellar tearing; (2) The subject of irradiation effects on reactor vessel support materials is under review by the NRC staff and is not part of the A-12 effort; and (3) No implementation action on your part will be required before the December 1980 meeting. Exceptions to this policy may be necessary on a case-by-case basis if significant materials problems are found to exist. Of more importance, however, is our request that you be prepared to commit to the alternative program if approved by the NRC staff at the meeting to be held in December 1980. Failure to commit to the alternative program will result in NRC imposition of the guidance contained in the May 19, 1980 and May 20, 1980 letters, as modified by applicable comments under review by the NRC staff.

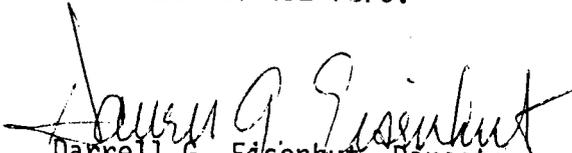
Note also that the recommendation for extension of the implementation period is still under staff review. A decision will be made prior to the December 1980 meeting.

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All Power Reactor Licensees
and Applicants

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Please refer any questions to Richard Snaider at 301-492-7876.


Darrell G. Eisenhut, Director
Division of Licensing

Enclosure:
Summary of August 27, 1980 Meeting

cc: Service List, w/o attachment

ALL POWER REACTOR LICENSEES

Docket No. 50-348 Farley Unit 1	Docket No. 50-3 Indian Point Unit 1
Docket No. 50-313 Arkansas Unit 1	Docket No. 50-247 Indian Point Unit 2
Docket No. 50-368 Arkansas Unit 2	Docket 50-286 Indian Point Unit 3
Docket No. 50-317 Calvert Cliffs Unit 1	Docket No. 50-155 Big Rock Point
Docket No. 50-318 Calvert Cliffs Unit 2	Docket No. 50-255 Palisades
Docket No. 50-293 Pilgrim Unit 1	Docket No. 50-409 Lacrosse
Docket No. 50-325 Brunswick Unit 1	Docket No. 50-269 Oconee Unit 1
Docket No. 50-324 Brunswick Unit 2	Docket No. 50-270 Oconee Unit 2
Docket No. 50-261 H. B. Robinson Unit 2	Docket No. 50-287 Oconee Unit 3
Docket No. 50-10 Dresden Unit 1	Docket No. 50-334 Beaver Valley Unit 1
Docket No. 50-237 Dresden Unit 2	Docket No. 50-302 Crystal River 3
Docket No. 50-249 Dresden Unit 3	Docket No. 50-335 St. Lucie Unit 1
Docket No. 50-254 Quad-Cities Unit 1	Docket No. 50-250 Turkey Point Unit 3
Docket No. 50-265 Quad-Cities Unit 2	Docket No. 50-251 Turkey Point Unit 4
Docket No. 50-295 Zion Unit 1	Docket No. 50-321 Edwin I. Hatch Unit 1
Docket No. 50-304 Zion Unit 2	Docket No. 50-366 Edwin I. Hatch Unit 2
Docket No. 50-213 Connecticut Yankee (Had dam Neck)	Docket No. 50-315 D. C. Cook Unit 1

Docket No. 50-316
D. C. Cook Unit 2

Docket No. 50-331
Duane Arnold

Docket No. 50-219
Oyster Creek Unit 1

Docket No. 50-309
Maine Yankee

Docket No. 50-289
Three Mile Island Unit 1

Docket No. 50-320
Three Mile Island Unit 2

Docket No. 50-298
Cooper Station

Docket No. 50-220
Nine Mile Point Unit 1

Docket No. 50-245
Millstone Unit 1

Docket No. 50-336
Millstone Unit 2

Docket No. 50-263
Monticello

Docket No. 50-282
Prairie Island Unit 1

Docket No. 50-306
Prairie Island Unit 2

Docket No. 50-285
Ft. Calhoun

Docket No. 50-133
Humboldt Bay

Docket No. 50-277
Peach Bottom 2

Docket No. 50-278
Peach Bottom 3

Docket No. 50-344
Trojan

Docket No. 50-333
FitzPatrick

Docket No. 50-267
Ft. St. Vrain

Docket No. 50-272
Salem Unit 1

Docket No. 50-244
R. E. Ginna 1

Docket No. 50-312
Rancho Seco

Docket No. 50-206
San Onofre 1

Docket No. 50-259
Browns Ferry Unit 1

Docket No. 50-260
Browns Ferry Unit 2

Docket No. 50-296
Browns Ferry Unit 3

Docket No. 50-346
Davis-Besse 1

Docket No. 50-271
Vermont Yankee

Docket No. 50-338
North Anna 1

Docket No. 50-280
Surry Unit 1

Docket No. 50-281
Surry Unit 2

Docket No. 50-266
Point Beach Unit 1

Docket No. 50-301
Point Beach Unit 2

APPLICANTS

Docket No. 50-508
WPPSS 4

Docket No. 50-397
WPPSS 1

Docket No. 50-460
WPPSS 2

Docket No. 50-513
WPPSS 3

Docket No. 50-509
WPPSS 5

Docket No. STN 50-523
Palo Verde 1

Docket No. 50-275
Diablo Canyon 1

Docket No. 50-327
Sequoyah 1

Docket No. 50-454
Byron 1

Docket No. STN 50-529
Palo Verde 2

Docket No. 50-323
Diablo Canyon 2

Docket No. 50-328
Sequoyah 2

Docket No. 50-455
Byron 2

Docket No. STN 50-530
Palo Verde 3

Docket No. 50-461
Clinton 1

Docket STN 50-498
So. Texas 1

Docket No. 50-456
Braidwood 1

Docket No. STN 50-553
Phipps Bend 1

Docket No. 50-462
Clinton 2

Docket STN 50-499
So. Texas 2

Docket No. 50-457
Braidwood 2

Docket No. STN 50-554
Phipps Bend 2

Docket No. 50-416
Grand Gulf 1

Docket No. 50-395
Summer 1

Docket No. 50-367
Baillly

Docket No. STN 50-566
Yellow Creek 1

Docket No. 50-417
Grand Gulf 2

Docket No. 50-440
Perry 1

Docket No. 50-410
Nine Mile Point 2

Docket No. STN 50-567
Yellow Creek 2

Docket No. 50-354
Hope Creek 1

Docket No. 50-441
Perry 2

Docket No. 50-546
Marble Hill 1

Docket No. 50-467
Allens Creek 2

Docket No. 50-355
Hope Creek 2

Docket No. 50-352
Limerick 1

Docket No. 50-547
Marble Hill 2

Docket No. 50- 7
Floating Nuclear Plant 1-8

Docket No. 50-311
Salem 2

Docket No. 50-353
Limerick 2

Docket No. 50-400
Shearon Harris 1

Docket No. 50-488
Perkins 1

Docket No. 50-458
Riverbend 1

Docket STN 50-518
Hartsville 1

Docket No. 50-401
Shearon Harris 2

Docket No. 50-489
Perkins 2

Docket No. 50-459
Riverbend 2

Docket STN 50-519
Hartsville 2

Docket No. 50-402
Shearon Harris 3

Docket No. STN 50-556
Black Fox 1

Docket No. 50-361
San Onofre 2

Docket STN 50-520
Hartsville 3

Docket No. 50-403
Shearon Harris 4

Docket No. STN 50-557
Black Fox 2

Docket No. 50-362
San Onofre 3

Docket STN 50-521
Hartsville 4

Docket No. 50-373
LaSalle 1

Docket No. 50-514
Pebble Springs 1

Docket No. 50-329
Midland 1

Docket No. 50-363
Forked River 1

Docket No. 50-374
LaSalle 2

Docket No. 50-515
Pebble Springs 2

Docket No. 50-330
Midland 2

Docket 50-341
Fermi 2

Docket No. 50-389
St. Lucie 2

Docket No. 50-522
Skagit 1

Docket No. 50-358
Zimmer 1

Docket No. 50-364
Farley 2

Docket No. 50-482
Wolf Creek

Docket No. 50-523
Skagit 2

Docket No. 50-382
Waterford 3

Docket No. 50-445
Comanche Peak 1

Docket No. 50-423
Milistone 3

Docket No. 50-471
Pilgrim 2

Docket No. 50-390
Watts Bar 1

Docket No. 50-446
Comanche Peak 2

Docket No. 50-438
Bellefonte 1

Docket No. 50-412
Beaver Valley 2

Docket No. 50-391
Watts Bar 2

Docket No. 50-491
Cherokee 1

Docket No. 50-439
Bellefonte 2

Docket No. 50-413
Catawba 1

Docket No. 50-424
Vantle 1

Docket No. 50-492
Cherokee 2

Docket No. 50-369
McGuire 1

Docket No. 50-414
Catawba 2

Docket No. 50-425
Vogtle 2

Docket No. 50-493
Cherokee 3

Docket No. 50-370
McGuire 2

Docket No. 50-322
Shoreham

Docket No. 50-483
Callaway 1

Docket No. 50-486
Callaway 2

Docket No. 50-387
Susquehanna 1

Docket No. 50-340
Seabrook

Docket No. 50-339
North Anna 2

Docket No. 50-388
Susquehanna 2

Docket No. 50-305
Kewaunee

Docket No. 50-29
Yankee-Rowe

Docket No. 50-267
Ft. St. Vrain