



Wyle Letter Reference No. EWS-GT21-020

May 22, 2002

Document Control Desk  
U.S. Nuclear Regulatory Commission  
Washington, DC 20555

Subject: Part 21 on Irradiation performed with the Cobalt-60 Sources in the Georgia Tech Hot Cell

Dear Sirs:

Pursuant to 10 CFR Part 21, this letter notifies the NRC of the existence of a reportable defect and its evaluation.

The defect is an error in irradiation dose units as identified in the attached letter from Georgia Tech dated March 15, 2002, which was received by Wyle on April 11, 2002 and submitted to the NRC with our referenced 4/12 letter. The error applies to all equipment irradiated with the cobalt-60 sources in the Georgia Tech hot cell from 7/24/1997 to 7/6/2001. Georgia Tech reported radiation doses in units of rads-air (absorbed dose in air), but the actual radiation dose units were Roentgens. Since one Roentgen is equal to 0.877 rad, the actual dose is less than the reported value.

Wyle performed an evaluation that determined the following:

1. Wyle projects that include irradiation with the cobalt-60 sources in the Georgia Tech hot cell from 7/24/1997 to 7/6/2001.
2. The actual dose absorbed by equipment in Item 1.
3. Whether the actual dose in said projects identified in Item 1 envelops the customer-specified requirements.

We have identified eighteen (18) companies and twenty-eight (28) specific reports that have been affected by this incident. The results of the evaluation are listed in the attached tables, with a separate table for each company. Concurrent with this notification, Wyle is notifying the affected customers and informing them of the impact on qualification. We will revise the affected report(s) according to our standard operating practices, and provide the revised report(s) to each customer.

Wyle Laboratories, Inc. 7800 Highway 20 West P.O. Box 077777 Huntsville, AL 35807-7777 Tel: (256)837-4411

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If you have any questions, please feel free to contact me by phone (256) 837-4411, Ext. 271, fax (256) 830-2109, or email [esmith@hnt.wylelabs.com](mailto:esmith@hnt.wylelabs.com).

Sincerely,

Wyle Laboratories, Inc.



Edward W. Smith  
Director, Contracts & Purchasing

Attachment: Wyle Evaluation Summaries

GT Reference	Irradiation Period	Specimen ID	Actual Total Dose, R	Actual Total Dose, rad	Wyle Required Test Dose, rad	Customer Required Dose, rad	Actual Total Dose / Customer Required Dose, %	Wyle Report No.	Customer	Comments
9905	6/11/99-6/14/99	1 MSIV actuator	7.209E+06	6.322E+06	7.000E+06	7.000E+06	90.32%	40321R99	Atwood & Morrill	normal radiation aging
00-03	2/12/00-2/12/00	1 MSIV actuator S/N SAA123	7.189E+05	6.305E+05	7.000E+05	7.000E+05	90.07%	43813R2000	Atwood & Morrill	normal radiation aging (4y)
00-08	4/7/00-4/10/00	1 MSIV actuator	1.066E+07	9.349E+06	1.000E+07	1.000E+07	93.49%	43813R2000	Atwood & Morrill	accident radiation (6h dose), see 00-11 for continuation
00-10	4/19/00-4/19/00	2 air valves	7.360E+05	6.455E+05	7.000E+05	7.000E+05	92.21%	43813R2000	Atwood & Morrill	normal radiation aging (4y)
00-11	5/18/00-5/25/00	1 MSIV actuator	9.441E-07	8.290E+07	9.120E+07	9.100E+07	90.99%	43813R2000	Atwood & Morrill	accident radiation (balance of 6 month dose), see 00-08 for 1st 6h dose
00-13	5/25/00-5/26/00	1 air valve pack	1.063E-07	9.323E+06	1.000E+07	1.000E+07	93.23%	43813R2000	Atwood & Morrill	accident radiation (6h dose)

GT Reference	Irradiation Period	Specimen ID	Actual Total Dose, R	Actual Total Dose, rad	Wyle Required Test Dose, rad	Customer Required Dose, rad	Actual Total Dose / Customer Required Dose, %	Wyle Report No.	Customer	Comments
97-18a	12/16/97-12/17/97	4, 9, 14, 19, 24	1.021E-07	8.964E+06	1.000E+07	1.560E+03	57.3985,26%	46506R98	Bechtel Hanford Inc.	research test normal radiation aging
97-18b	12/30/97-12/30/97	1, 2, 6, 7, 11, 12, 16, 17, 21, 22, 26, 27, 31, 32, 36, 37, 41, 42, 46, 47, 51-60	1.635E-03	1.434E+03	1.560E+03	1.560E+03	91.92%	46506R98	Bechtel Hanford Inc.	

GT Reference	Irradiation Period	Specimen ID	Actual Total Dose, R	Actual Total Dose, rad	Wye Required Test Dose, rad	Customer Required Dose, rad	Actual Total Dose / Customer Required Dose, %	Wye Report No.	Customer	Comments
9805a	2/3/98-3/9/98	215, 216, Baskets 14, 15, 16, 17, 23, 24, 25, 28, 29	2.581E+07	2.264E+07	2.500E+07	2.500E+07	90.54%	45120-2	Brookhaven National Laboratory	normal radiation aging
9805b	2/3/98-3/9/98	203, 204, 205, 206, 19, 20, 21, 26, 27	3.253E+06	2.853E+06	3.140E+06	3.140E+06	90.88%	45120-2	Brookhaven National Laboratory	normal radiation aging
9805c	2/10/98-2/12/98	212, 213, 214, 217, 218	2.952E+07	2.238E+07	2.500E+07	2.500E+07	89.52%	45120-2	Brookhaven National Laboratory	normal radiation aging
9805d	2/16/98-2/17/98	203, 204, 207-212	7.892E+07	6.892E+07	7.500E+07	7.500E+07	91.90%	45120-2	Brookhaven National Laboratory	normal radiation aging
9805e	2/3/98-3/9/98	1, 4, 7, 9, 10, 12, 15, 20, 21, 24, 25, 26, 27, 28, 29	7.656E+07	6.714E+07	7.500E+07	7.500E+07	89.52%	45120-2	Brookhaven National Laboratory	accident radiation
9805d,f	2/27/98-3/4/98	201, 202, 205, 206, 213, 214, 217, 218	1.554E+08	1.363E+08	1.500E+08	1.500E+08	90.88%	45120-2	Brookhaven National Laboratory	accident radiation
9805e,g	2/23/98-3/9/98	215, 216, 216x, 2, 3, 5, 6, 8, 11, 16, 17, 26, 27, 28, 29	1.540E+08	1.351E+08	1.500E+08	1.500E+08	90.04%	45120-2	Brookhaven National Laboratory	accident radiation
9819a	8/11/98-8/11/98	0303	2.268E+06	1.989E+06	2.200E+06	2.200E+06	90.41%	45120-3	Brookhaven National Laboratory	normal radiation aging
9819b	8/11/98-8/11/98	0304	2.268E+06	1.989E+06	2.200E+06	2.200E+06	90.41%	45120-3	Brookhaven National Laboratory	normal radiation aging
9819c	8/11/98-8/11/98	0305	2.268E+06	1.989E+06	2.200E+06	2.200E+06	90.41%	45120-3	Brookhaven National Laboratory	normal radiation aging
9819d	8/11/98-8/11/98	0306	2.268E+06	1.989E+06	2.200E+06	2.200E+06	90.41%	45120-3	Brookhaven National Laboratory	normal radiation aging
9819e	8/11/98-8/11/98	0312	5.149E+07	4.516E+07	5.000E+07	5.000E+07	90.31%	45120-3	Brookhaven National Laboratory	normal radiation aging
9819f	8/12/98-8/17/98	0313	5.149E+07	4.516E+07	5.000E+07	5.000E+07	90.31%	45120-3	Brookhaven National Laboratory	normal radiation aging
9819g	8/12/98-8/17/98	0314	5.149E+07	4.516E+07	5.000E+07	5.000E+07	90.31%	45120-3	Brookhaven National Laboratory	normal radiation aging
9819h	8/12/98-8/17/98	0315	5.149E+07	4.516E+07	5.000E+07	5.000E+07	90.31%	45120-3	Brookhaven National Laboratory	normal radiation aging
9819i	8/12/98-8/17/98	0316	5.149E+07	4.516E+07	5.000E+07	5.000E+07	90.31%	45120-3	Brookhaven National Laboratory	normal radiation aging
9819j	8/12/98-8/17/98	0317	5.149E+07	4.516E+07	5.000E+07	5.000E+07	90.31%	45120-3	Brookhaven National Laboratory	normal radiation aging
9819k	8/11/98-8/11/98	8 (I0303D/J0303D)	2.268E+06	1.989E+06	2.200E+06	2.200E+06	90.41%	45120-3	Brookhaven National Laboratory	normal radiation aging
9819l	8/11/98-8/11/98	9 (I0303F/J0303F)	2.268E+06	1.989E+06	2.200E+06	2.200E+06	90.41%	45120-3	Brookhaven National Laboratory	normal radiation aging
9819m	8/11/98-8/11/98	10 (I0303G/J0303G)	2.268E+06	1.989E+06	2.200E+06	2.200E+06	90.41%	45120-3	Brookhaven National Laboratory	normal radiation aging
9819n	8/11/98-8/11/98	11 (I0303H/J0303H)	2.268E+06	1.989E+06	2.200E+06	2.200E+06	90.41%	45120-3	Brookhaven National Laboratory	normal radiation aging
9819o	8/11/98-8/11/98	15 (I0311F/J0311F)	5.149E+07	4.516E+07	5.000E+07	5.000E+07	90.31%	45120-3	Brookhaven National Laboratory	normal radiation aging
9819p	8/12/98-8/17/98	20 (I0312E/J0312E)	5.149E+07	4.516E+07	5.000E+07	5.000E+07	90.31%	45120-3	Brookhaven National Laboratory	normal radiation aging
9819q	8/12/98-8/17/98	21 (I0312F/J0312F)	5.149E+07	4.516E+07	5.000E+07	5.000E+07	90.31%	45120-3	Brookhaven National Laboratory	normal radiation aging
9819r	8/12/98-8/17/98	22 (I0312G/J0312G)	5.149E+07	4.516E+07	5.000E+07	5.000E+07	90.31%	45120-3	Brookhaven National Laboratory	normal radiation aging
9819s	8/12/98-8/17/98	22 (I0312H/J0312H)	5.149E+07	4.516E+07	5.000E+07	5.000E+07	90.31%	45120-3	Brookhaven National Laboratory	normal radiation aging
9819t	8/26/98-9/9/98	0302	1.532E+08	1.344E+08	1.500E+08	1.500E+08	89.57%	45120-3	Brookhaven National Laboratory	accident radiation
9819u	8/26/98-9/9/98	0303	1.532E+08	1.344E+08	1.500E+08	1.500E+08	89.57%	45120-3	Brookhaven National Laboratory	accident radiation
9819v	8/26/98-9/9/98	0304	1.532E+08	1.344E+08	1.500E+08	1.500E+08	89.57%	45120-3	Brookhaven National Laboratory	accident radiation
9819w	8/26/98-9/9/98	0305	1.532E+08	1.344E+08	1.500E+08	1.500E+08	89.57%	45120-3	Brookhaven National Laboratory	accident radiation
9819x	8/26/98-9/9/98	0306	1.532E+08	1.344E+08	1.500E+08	1.500E+08	89.57%	45120-3	Brookhaven National Laboratory	accident radiation
9819y	8/26/98-9/9/98	0307	1.532E+08	1.344E+08	1.500E+08	1.500E+08	89.57%	45120-3	Brookhaven National Laboratory	accident radiation
9819z	8/26/98-9/9/98	0308	1.532E+08	1.344E+08	1.500E+08	1.500E+08	89.57%	45120-3	Brookhaven National Laboratory	accident radiation
9819aa	8/26/98-9/9/98	0309	1.532E+08	1.344E+08	1.500E+08	1.500E+08	89.57%	45120-3	Brookhaven National Laboratory	accident radiation
9819ab	8/26/98-9/9/98	0310	1.532E+08	1.344E+08	1.500E+08	1.500E+08	89.57%	45120-3	Brookhaven National Laboratory	accident radiation
9819ac	8/26/98-9/9/98	0311	1.532E+08	1.344E+08	1.500E+08	1.500E+08	89.57%	45120-3	Brookhaven National Laboratory	accident radiation
9819ad	8/26/98-9/9/98	0312	1.532E+08	1.344E+08	1.500E+08	1.500E+08	89.57%	45120-3	Brookhaven National Laboratory	accident radiation
9819ae	8/26/98-9/9/98	0313	1.532E+08	1.344E+08	1.500E+08	1.500E+08	89.57%	45120-3	Brookhaven National Laboratory	accident radiation
9819af	8/31/98-9/14/98	0314	1.532E+08	1.344E+08	1.500E+08	1.500E+08	89.57%	45120-3	Brookhaven National Laboratory	accident radiation
9819d,f	8/31/98-9/14/98	0315	1.532E+08	1.344E+08	1.500E+08	1.500E+08	89.57%	45120-3	Brookhaven National Laboratory	accident radiation
9819d,f	8/31/98-9/14/98	0316	1.532E+08	1.344E+08	1.500E+08	1.500E+08	89.57%	45120-3	Brookhaven National Laboratory	accident radiation
9819c,e	8/26/98-9/9/98	0317	1.532E+08	1.344E+08	1.500E+08	1.500E+08	89.57%	45120-3	Brookhaven National Laboratory	accident radiation

GT Reference	Irradiation Period	Specimen ID	Actual Total Dose, R	Actual Total Dose, rad	Wyle Required Test Dose, rad	Customer Required Dose, rad	Actual Total Dose / Customer Required Dose, %	Wyle Report No.	Customer	Comments
9819f	9/10/98-9/14/98	1 (0301F/J0301F)	7.665E+07	6.722E+07	7.500E+07	7.500E+07	89.63%	45120-3	Brookhaven National Laboratory	accident radiation
9819g	9/10/98-9/22/98	2 (0301G/J0301G)	1.345E+08	1.345E+08	1.500E+08	1.500E+08	89.69%	45120-3	Brookhaven National Laboratory	accident radiation
9819h	9/10/98-9/22/98	3 (0301H/J0301H)	1.345E+08	1.345E+08	1.500E+08	1.500E+08	89.69%	45120-3	Brookhaven National Laboratory	accident radiation
9819i	9/10/98-9/14/98	4 (0302F/J0302F)	7.665E+07	6.722E+07	7.500E+07	7.500E+07	89.63%	45120-3	Brookhaven National Laboratory	accident radiation
9819j	9/10/98-9/22/98	5 (0302G/J0302G)	1.345E+08	1.345E+08	1.500E+08	1.500E+08	89.69%	45120-3	Brookhaven National Laboratory	accident radiation
9819k	9/10/98-9/22/98	6 (0302H/J0302H)	1.345E+08	1.345E+08	1.500E+08	1.500E+08	89.69%	45120-3	Brookhaven National Laboratory	accident radiation
9819l	9/10/98-9/14/98	9 (0303F/J0303F)	7.665E+07	6.722E+07	7.500E+07	7.500E+07	89.63%	45120-3	Brookhaven National Laboratory	accident radiation
9819m	9/10/98-9/22/98	10 (0303G/J0303G)	1.345E+08	1.345E+08	1.500E+08	1.500E+08	89.69%	45120-3	Brookhaven National Laboratory	accident radiation
9819n	9/10/98-9/22/98	11 (0303H/J0303H)	1.345E+08	1.345E+08	1.500E+08	1.500E+08	89.69%	45120-3	Brookhaven National Laboratory	accident radiation
9819o	9/10/98-9/14/98	7 (0307F/J0307F)	7.665E+07	6.722E+07	7.500E+07	7.500E+07	89.63%	45120-3	Brookhaven National Laboratory	accident radiation
9819p	9/10/98-9/22/98	13 (0307G/J0307G)	1.345E+08	1.345E+08	1.500E+08	1.500E+08	89.69%	45120-3	Brookhaven National Laboratory	accident radiation
9819q	9/10/98-9/22/98	14 (0307H/J0307H)	1.345E+08	1.345E+08	1.500E+08	1.500E+08	89.69%	45120-3	Brookhaven National Laboratory	accident radiation
9819r	9/10/98-9/14/98	16 (0311H/J0311H)	7.665E+07	6.722E+07	7.500E+07	7.500E+07	89.63%	45120-3	Brookhaven National Laboratory	accident radiation
9819s	9/10/98-9/22/98	17 (0311G/J0311G)	1.345E+08	1.345E+08	1.500E+08	1.500E+08	89.69%	45120-3	Brookhaven National Laboratory	accident radiation
9819t	9/10/98-9/14/98	20 (0312F/J0312F)	7.665E+07	6.722E+07	7.500E+07	7.500E+07	89.63%	45120-3	Brookhaven National Laboratory	accident radiation
9819u	9/10/98-9/22/98	21 (0312G/J0312G)	1.345E+08	1.345E+08	1.500E+08	1.500E+08	89.69%	45120-3	Brookhaven National Laboratory	accident radiation
9819v	9/10/98-9/22/98	22 (0312H/J0312H)	1.345E+08	1.345E+08	1.500E+08	1.500E+08	89.69%	45120-3	Brookhaven National Laboratory	accident radiation
9912e	8/24/99-8/27/99	0403	2.599E+07	2.279E+07	2.500E+07	2.500E+07	91.17%	45120-4	Brookhaven National Laboratory	normal radiation aging
9912f	8/24/99-8/27/99	0404	2.599E+07	2.279E+07	2.500E+07	2.500E+07	91.17%	45120-4	Brookhaven National Laboratory	normal radiation aging
9912g	8/24/99-8/27/99	0405	2.599E+07	2.279E+07	2.500E+07	2.500E+07	91.17%	45120-4	Brookhaven National Laboratory	normal radiation aging
9912h	8/24/99-8/27/99	0406	2.599E+07	2.279E+07	2.500E+07	2.500E+07	91.17%	45120-4	Brookhaven National Laboratory	normal radiation aging
9912i	7/29/99-8/5/99	0407	5.360E+07	4.701E+07	5.000E+07	5.000E+07	94.01%	45120-4	Brookhaven National Laboratory	normal radiation aging
9912j	7/29/99-8/5/99	0408	5.360E+07	4.701E+07	5.000E+07	5.000E+07	94.01%	45120-4	Brookhaven National Laboratory	normal radiation aging
9912k	7/29/99-8/5/99	0409	5.360E+07	4.701E+07	5.000E+07	5.000E+07	94.01%	45120-4	Brookhaven National Laboratory	normal radiation aging
9912l	7/29/99-8/5/99	0410	5.360E+07	4.701E+07	5.000E+07	5.000E+07	94.01%	45120-4	Brookhaven National Laboratory	normal radiation aging
9912m	8/17/99-8/20/99	0411	5.157E+07	4.523E+07	5.000E+07	5.000E+07	90.45%	45120-4	Brookhaven National Laboratory	normal radiation aging
9912n	8/17/99-8/20/99	0412	5.157E+07	4.523E+07	5.000E+07	5.000E+07	90.45%	45120-4	Brookhaven National Laboratory	normal radiation aging
9912o	8/17/99-8/20/99	0413	5.157E+07	4.523E+07	5.000E+07	5.000E+07	90.45%	45120-4	Brookhaven National Laboratory	normal radiation aging
9912p	8/17/99-8/20/99	0414	5.157E+07	4.523E+07	5.000E+07	5.000E+07	90.45%	45120-4	Brookhaven National Laboratory	normal radiation aging
9912q	8/17/99-8/20/99	0415	5.157E+07	4.523E+07	5.000E+07	5.000E+07	90.45%	45120-4	Brookhaven National Laboratory	normal radiation aging
9912r	7/29/99-8/5/99	0416	5.360E+07	4.701E+07	5.000E+07	5.000E+07	94.01%	45120-4	Brookhaven National Laboratory	normal radiation aging
9912s	7/29/99-8/5/99	0417	5.360E+07	4.701E+07	5.000E+07	5.000E+07	94.01%	45120-4	Brookhaven National Laboratory	normal radiation aging
9912t	8/17/99-8/20/99	0418	5.157E+07	4.523E+07	5.000E+07	5.000E+07	90.45%	45120-4	Brookhaven National Laboratory	normal radiation aging
9912u	8/17/99-8/20/99	0419	5.157E+07	4.523E+07	5.000E+07	5.000E+07	90.45%	45120-4	Brookhaven National Laboratory	normal radiation aging
9912v	8/24/99-8/27/99	8 (0403D/J0403D)	2.599E+07	2.279E+07	2.500E+07	2.500E+07	91.17%	45120-4	Brookhaven National Laboratory	normal radiation aging
9912w	8/24/99-8/27/99	9 (0403E/J0403E)	2.599E+07	2.279E+07	2.500E+07	2.500E+07	91.17%	45120-4	Brookhaven National Laboratory	normal radiation aging
9912x	8/24/99-8/27/99	10 (0403F/J0403F)	2.599E+07	2.279E+07	2.500E+07	2.500E+07	91.17%	45120-4	Brookhaven National Laboratory	normal radiation aging
9912y	8/24/99-8/27/99	11 (0403G/J0403G)	2.599E+07	2.279E+07	2.500E+07	2.500E+07	91.17%	45120-4	Brookhaven National Laboratory	normal radiation aging
9912z	8/24/99-8/27/99	12 (0403H/J0403H)	2.599E+07	2.279E+07	2.500E+07	2.500E+07	91.17%	45120-4	Brookhaven National Laboratory	normal radiation aging
9912a	8/20/99-8/23/99	14 (0407D/J0407D)	2.599E+07	2.279E+07	2.500E+07	2.500E+07	90.12%	45120-4	Brookhaven National Laboratory	normal radiation aging
9912b	7/29/99-8/5/99	15 (0407E/J0407E)	5.360E+07	4.701E+07	5.000E+07	5.000E+07	94.01%	45120-4	Brookhaven National Laboratory	normal radiation aging
9912c	7/29/99-8/5/99	16 (0407F/J0407F)	5.360E+07	4.701E+07	5.000E+07	5.000E+07	94.01%	45120-4	Brookhaven National Laboratory	normal radiation aging
9912d	7/29/99-8/5/99	17 (0407G/J0407G)	5.360E+07	4.701E+07	5.000E+07	5.000E+07	94.01%	45120-4	Brookhaven National Laboratory	normal radiation aging
9912e	7/29/99-8/5/99	18 (0407H/J0407H)	5.360E+07	4.701E+07	5.000E+07	5.000E+07	94.01%	45120-4	Brookhaven National Laboratory	normal radiation aging
9912f	8/17/99-8/20/99	20 (0412E/J0412E)	5.157E+07	4.523E+07	5.000E+07	5.000E+07	90.45%	45120-4	Brookhaven National Laboratory	normal radiation aging
9912g	8/17/99-8/20/99	21 (0412F/J0412F)	5.157E+07	4.523E+07	5.000E+07	5.000E+07	90.45%	45120-4	Brookhaven National Laboratory	normal radiation aging
9912h	8/17/99-8/20/99	22 (0412G/J0412G)	5.157E+07	4.523E+07	5.000E+07	5.000E+07	90.45%	45120-4	Brookhaven National Laboratory	normal radiation aging

GT Reference	Irradiation Period	Specimen ID	Actual Total Dose, R	Actual Total Dose, rad	Wyle Required Test Dose, rad	Customer Required Dose, rad	Actual Total Dose / Customer Required Dose, %	Wyle Report No.	Customer	Comments
9912b	8/17/99-8/20/99	23 (0412H/J0412H)	5.157E+08	4.523E+07	5.000E+08	5.000E+07	90.45%	45120-4	Brookhaven National Laboratory	normal radiation aging
9912	9/10/99-9/21/99	0401	1.351E+08	1.351E+08	1.500E+08	1.500E+08	90.10%	45120-4	Brookhaven National Laboratory	accident radiation
9912	9/10/99-9/21/99	0402	1.541E+08	1.351E+08	1.500E+08	1.500E+08	90.10%	45120-4	Brookhaven National Laboratory	accident radiation
9912	9/10/99-9/21/99	0403	1.541E+08	1.351E+08	1.500E+08	1.500E+08	90.10%	45120-4	Brookhaven National Laboratory	accident radiation
9912	9/10/99-9/21/99	0404	1.541E+08	1.351E+08	1.500E+08	1.500E+08	90.10%	45120-4	Brookhaven National Laboratory	accident radiation
9912	9/10/99-9/21/99	0405	1.541E+08	1.351E+08	1.500E+08	1.500E+08	90.10%	45120-4	Brookhaven National Laboratory	accident radiation
9912	9/10/99-9/21/99	0406	1.541E+08	1.351E+08	1.500E+08	1.500E+08	90.10%	45120-4	Brookhaven National Laboratory	accident radiation
9912	9/10/99-9/21/99	0407	1.541E+08	1.351E+08	1.500E+08	1.500E+08	90.10%	45120-4	Brookhaven National Laboratory	accident radiation
9912	9/10/99-9/21/99	0408	1.541E+08	1.351E+08	1.500E+08	1.500E+08	90.10%	45120-4	Brookhaven National Laboratory	accident radiation
9912	9/10/99-9/21/99	0409	1.541E+08	1.351E+08	1.500E+08	1.500E+08	90.10%	45120-4	Brookhaven National Laboratory	accident radiation
9912	9/10/99-9/21/99	0410	1.541E+08	1.351E+08	1.500E+08	1.500E+08	90.10%	45120-4	Brookhaven National Laboratory	accident radiation
9912	9/10/99-9/21/99	0411	1.541E+08	1.351E+08	1.500E+08	1.500E+08	90.10%	45120-4	Brookhaven National Laboratory	accident radiation
9912	9/10/99-9/21/99	0412	1.541E+08	1.351E+08	1.500E+08	1.500E+08	90.10%	45120-4	Brookhaven National Laboratory	accident radiation
9912	9/10/99-9/21/99	0413	1.541E+08	1.351E+08	1.500E+08	1.500E+08	90.10%	45120-4	Brookhaven National Laboratory	accident radiation
9912	9/10/99-9/21/99	0414	1.541E+08	1.351E+08	1.500E+08	1.500E+08	90.10%	45120-4	Brookhaven National Laboratory	accident radiation
9912	9/10/99-9/21/99	0415	1.541E+08	1.351E+08	1.500E+08	1.500E+08	90.10%	45120-4	Brookhaven National Laboratory	accident radiation
9912	9/10/99-9/21/99	0416	1.541E+08	1.351E+08	1.500E+08	1.500E+08	90.10%	45120-4	Brookhaven National Laboratory	accident radiation
9912	9/10/99-9/21/99	0417	1.548E+08	1.358E+08	1.500E+08	1.500E+08	90.51%	45120-4	Brookhaven National Laboratory	accident radiation
9912	9/24/99-10/4/99	0418	1.548E+08	1.358E+08	1.500E+08	1.500E+08	90.51%	45120-4	Brookhaven National Laboratory	accident radiation
9912	9/24/99-10/4/99	0419	1.548E+08	1.358E+08	1.500E+08	1.500E+08	90.51%	45120-4	Brookhaven National Laboratory	accident radiation
9912h	9/3/99-9/7/99	1 (0401F/J0401F)	7.708E+07	6.790E+07	7.500E+07	7.500E+07	90.13%	45120-4	Brookhaven National Laboratory	accident radiation
9912	9/24/99-10/4/99	2 (0401G/J0401G)	1.548E+08	1.358E+08	1.500E+08	1.500E+08	90.51%	45120-4	Brookhaven National Laboratory	accident radiation
9912	9/24/99-10/4/99	3 (0401H/J0401H)	1.548E+08	1.358E+08	1.500E+08	1.500E+08	90.51%	45120-4	Brookhaven National Laboratory	accident radiation
9912	9/3/99-9/7/99	4 (0402F/J0402F)	7.708E+07	6.790E+07	7.500E+07	7.500E+07	90.13%	45120-4	Brookhaven National Laboratory	accident radiation
9912	9/24/99-10/4/99	5 (0402G/J0402G)	1.548E+08	1.358E+08	1.500E+08	1.500E+08	90.51%	45120-4	Brookhaven National Laboratory	accident radiation
9912	9/24/99-10/4/99	6 (0402H/J0402H)	1.548E+08	1.358E+08	1.500E+08	1.500E+08	90.51%	45120-4	Brookhaven National Laboratory	accident radiation
9912h	9/3/99-9/7/99	9 (0403F/J0403F)	7.708E+07	6.790E+07	7.500E+07	7.500E+07	90.13%	45120-4	Brookhaven National Laboratory	accident radiation
9912	9/24/99-10/4/99	10 (0403G/J0403G)	1.548E+08	1.358E+08	1.500E+08	1.500E+08	90.51%	45120-4	Brookhaven National Laboratory	accident radiation
9912	9/24/99-10/4/99	11 (0403H/J0403H)	1.548E+08	1.358E+08	1.500E+08	1.500E+08	90.51%	45120-4	Brookhaven National Laboratory	accident radiation
9912	9/3/99-9/7/99	16 (0407F/J0407F)	7.708E+07	6.790E+07	7.500E+07	7.500E+07	90.13%	45120-4	Brookhaven National Laboratory	accident radiation
9912	9/24/99-10/4/99	17 (0407G/J0407G)	1.548E+08	1.358E+08	1.500E+08	1.500E+08	90.51%	45120-4	Brookhaven National Laboratory	accident radiation
9912	9/24/99-10/4/99	18 (0407H/J0407H)	1.548E+08	1.358E+08	1.500E+08	1.500E+08	90.51%	45120-4	Brookhaven National Laboratory	accident radiation
9912h	9/3/99-9/7/99	21 (0412F/J0412F)	7.708E+07	6.790E+07	7.500E+07	7.500E+07	90.13%	45120-4	Brookhaven National Laboratory	accident radiation
9912	9/24/99-10/4/99	22 (0412G/J0412G)	1.548E+08	1.358E+08	1.500E+08	1.500E+08	90.51%	45120-4	Brookhaven National Laboratory	accident radiation
9912	9/24/99-10/4/99	23 (0412H/J0412H)	1.548E+08	1.358E+08	1.500E+08	1.500E+08	90.51%	45120-4	Brookhaven National Laboratory	accident radiation
9912c	8/23/99-8/25/99	0504	2.579E+07	2.262E+07	2.500E+07	2.500E+07	90.47%	45120-5, Rev. A	Brookhaven National Laboratory	normal radiation aging
9912c	8/23/99-8/25/99	0505	2.579E+07	2.262E+07	2.500E+07	2.500E+07	90.47%	45120-5, Rev. A	Brookhaven National Laboratory	normal radiation aging
9912e	8/25/99-8/27/99	0506	2.599E+07	2.279E+07	2.500E+07	2.500E+07	91.17%	45120-5, Rev. A	Brookhaven National Laboratory	normal radiation aging
9912e	8/25/99-8/27/99	0507	2.599E+07	2.279E+07	2.500E+07	2.500E+07	91.17%	45120-5, Rev. A	Brookhaven National Laboratory	normal radiation aging
9912c	8/20/99-8/23/99	0508	2.569E+07	2.253E+07	2.500E+07	2.500E+07	90.12%	45120-5, Rev. A	Brookhaven National Laboratory	normal radiation aging
9912c	8/20/99-8/23/99	0509	2.569E+07	2.253E+07	2.500E+07	2.500E+07	90.12%	45120-5, Rev. A	Brookhaven National Laboratory	normal radiation aging
9912g	8/30/99-9/3/99	0510	5.149E+07	4.516E+07	5.000E+07	5.000E+07	90.31%	45120-5, Rev. A	Brookhaven National Laboratory	normal radiation aging
9912g	8/30/99-9/3/99	0511	5.149E+07	4.516E+07	5.000E+07	5.000E+07	90.31%	45120-5, Rev. A	Brookhaven National Laboratory	normal radiation aging
9912a	8/30/99-9/3/99	0512	5.149E+07	4.516E+07	5.000E+07	5.000E+07	90.31%	45120-5, Rev. A	Brookhaven National Laboratory	normal radiation aging
9912b	8/17/99-8/20/99	0513	5.157E+07	4.523E+07	5.000E+07	5.000E+07	90.45%	45120-5, Rev. A	Brookhaven National Laboratory	normal radiation aging
9912b	8/17/99-8/20/99	0514	5.157E+07	4.523E+07	5.000E+07	5.000E+07	90.45%	45120-5, Rev. A	Brookhaven National Laboratory	normal radiation aging
9912c.f	8/20/99-8/30/99	0515	5.135E+07	4.503E+07	5.000E+07	5.000E+07	90.07%	45120-5, Rev. A	Brookhaven National Laboratory	normal radiation aging









GT Reference	Irradiation Period	Specimen ID	Actual Total Dose, R	Actual Total Dose, rad	Wyle Required Test Dose, rad	Customer Required Dose, rad	Actual Total Dose / Customer Required Dose, %	Wyle Report No.	Customer	Comments
9912c.p	2/1/00-2/28/00	12 (I0604H/J0604H)	1.566E-08	1.373E+08	1.500E+08	1.500E+08	91.56%	45120-6	Brookhaven National Laboratory	accident radiation
9912c	2/1/00-2/7/00	15 (I0605F/J0605F)	7.899E-07	6.927E+07	7.500E+07	7.500E+07	92.37%	45120-6	Brookhaven National Laboratory	accident radiation
9912c.p	2/1/00-2/28/00	16 (I0605G/J0605G)	1.566E+08	1.373E+08	1.500E+08	1.500E+08	91.56%	45120-6	Brookhaven National Laboratory	accident radiation
9912c.p	2/1/00-2/28/00	17 (I0605H/J0605H)	1.566E+08	1.373E+08	1.500E+08	1.500E+08	91.56%	45120-6	Brookhaven National Laboratory	accident radiation
9912c	2/1/00-2/7/00	20 (I0608F/J0608F)	7.899E+07	6.927E+07	7.500E+07	7.500E+07	92.37%	45120-6	Brookhaven National Laboratory	accident radiation
9912c.p	2/1/00-2/28/00	21 (I0608G/J0608G)	1.566E+08	1.373E+08	1.500E+08	1.500E+08	91.56%	45120-6	Brookhaven National Laboratory	accident radiation
9912c	2/1/00-2/28/00	22 (I0608H/J0608H)	1.566E+08	1.373E+08	1.500E+08	1.500E+08	91.56%	45120-6	Brookhaven National Laboratory	accident radiation
9912c.p	2/1/00-2/7/00	25 (I0611F/J0611F)	7.899E+07	6.927E+07	7.500E+07	7.500E+07	92.37%	45120-6	Brookhaven National Laboratory	accident radiation
9912c.p	2/1/00-2/28/00	26 (I0611G/J0611G)	1.566E+08	1.373E+08	1.500E+08	1.500E+08	91.56%	45120-6	Brookhaven National Laboratory	accident radiation
9912c	2/1/00-2/28/00	27 (I0611H/J0611H)	1.566E+08	1.373E+08	1.500E+08	1.500E+08	91.56%	45120-6	Brookhaven National Laboratory	accident radiation
9912c	2/1/00-2/7/00	32 (I0621F/J0621F)	7.899E+07	6.927E+07	7.500E+07	7.500E+07	92.37%	45120-6	Brookhaven National Laboratory	accident radiation
9912c.p	2/1/00-2/28/00	33 (I0621G/J0621G)	1.566E+08	1.373E+08	1.500E+08	1.500E+08	91.56%	45120-6	Brookhaven National Laboratory	accident radiation
9912c.p	2/1/00-2/28/00	34 (I0621H/J0621H)	1.566E+08	1.373E+08	1.500E+08	1.500E+08	91.56%	45120-6	Brookhaven National Laboratory	accident radiation

GT Reference	Irradiation Period	Specimen ID	Actual Total Dose, R	Actual Total Dose, rad	Wyle Required Test Dose, rad	Customer Required Dose, rad	Actual Total Dose / Customer Required Dose, %	Wyle Report No.	Customer	Comments
9810	3/30/98-3/31/98	2 LED's, 1 Fire Detection Panel, 1 Power Supply, 1 Temp Controller, & 1 pressure transmitter	1.253E+05	1.069E+05	1.200E+05	1.000E+05	109.89%	45965A98-ACU	Century Corporation (Formerly Kyungwon-Century Co., Ltd	normal + accident TID
9815	5/11/98-5/12/98	CRT32, CR133	1.265E+05	1.109E+05	1.200E+05	1.000E+05	110.94%	45965A98-ACU	Century Corporation (Formerly Kyungwon-Century Co., Ltd	normal + accident TID

GT Reference	Irradiation Period	Specimen ID	Actual Total Dose, R	Actual Total Dose, rad	Wyle Required Test Dose, rad	Customer Required Dose, rad	Actual Total Dose / Customer Required Dose, %	Wyle Report No.	Customer	Comments
97-12a	10/17/97-10/20/97	2 small motors, 2 large motors	1.120E+07	9.822E+06	1.100E+07	1.000E+07	98.22%	45966R98, Rev. B	Chun In, Limited	normal + accident TID
97-12b	10/24/97-10/26/97	2 fan blades, 2 cable samples	1.150E+07	1.009E+07	1.100E+07	1.000E+07	100.86%	45966R98, Rev. B	Chun In, Limited	normal + accident TID

GT Reference	Irradiation Period	Specimen ID	Actual Total Dose, R	Actual Total Dose, rad	Wyle Required Test Dose, rad	Customer Required Dose, rad	Actual Total Dose / Customer Required Dose, %	Wyle Report No.	Customer	Comments
9807	3/9/88-3/11/98	Raychem cable splice assemblies	2.240E+07	1.964E+07	2.200E+07	2.000E+07	98.22%	46312-1	Customer Energy	
9811	4/8/88-4/9/88	4 coated plates	2.046E+07	1.794E+07	2.000E+07	2.000E+07	89.72%	46945-1	Consumers Energy	accident radiation

GT Reference	Irradiation Period	Specimen ID	Actual Total Dose, R	Actual Total Dose, rad	Wyle Required Test Dose, rad	Customer Required Dose, rad	Actual Total Dose / Customer Required Dose, %	Wyle Report No.	Customer	Comments
00-20	9/11/00-9/11/00	1 actuator & spare parts	1.235E+06	1.083E+06	1.200E+06	1.200E+06	90.26%	43426R00	Curtiss-Wright Target Rock Div.	normal radiation aging
00-24	10/12/00-10/12/00	o-ring kits	1.257E+06	1.102E+06	1.200E+06	1.200E+06	91.87%	43426R00	Curtiss-Wright Target Rock Div.	normal radiation aging

GT Reference	Irradiation Period	Specimen ID	Actual Total Dose, R	Actual Total Dose, rad	Wye Required Test Dose, rad	Customer Required Dose, rad	Actual Total Dose / Customer Required Dose, %	Wye Report No.	Customer	Comments
9301	1/28/99-3/5/99	two penetrations	6.693E+08	5.870E+08	6.500E+08	6.500E+08	90.31%	42245-02	D. G. O'Brien, Inc.	-
2001-14a	4/27/01-4/30/01	cable samples	1.447E+07	1.269E+07	1.370E+07	1.241E+07	102.26%	45439R2001-00	D. G. O'Brien, Inc.	normal + accident TID
2001-14b	4/30/01-5/01/01	fiber optic penetrator	1.243E+07	1.090E+07	1.210E+07	1.100E+07	99.10%	45439R2001-00	D. G. O'Brien, Inc.	normal + accident TID
2001-14c	4/30/01-5/01/01	C&I penetrator	1.418E+07	1.244E+07	1.370E+07	1.241E+07	100.21%	45439R2001-00	D. G. O'Brien, Inc.	normal + accident TID



GT Reference	Irradiation Period	Specimen ID	Actual Total Dose, R	Actual Total Dose, rad	Wyle Required Test Dose, rad	Customer Required Dose, rad	Actual Total Dose / Customer Required Dose, %	Wyle Report No.	Customer	Comments
00-12a	5/4/00-5/5/00	200 Hp motor	1.027E+07	9.007E+06	1.000E+07	1.000E+07	90.07%	1001036	Electric Power Research Institute	normal radiation aging
00-12b	5/5/00-5/8/00	6 wood blocks, twisted wires, straight wires, large wire loops	2.125E+07	1.864E+07	2.000E+07	2.000E+07	93.18%	1001036	Electric Power Research Institute	normal radiation aging
00-12c	5/8/00-5/10/00	400 Hp motor, small loops, 2 wood blocks	2.086E+07	1.829E+07	2.000E+07	2.000E+07	91.47%	1001036	Electric Power Research Institute	normal radiation aging
00-22a	10/20/00-10/23/00	wood/coil blocks, twisted wire racks, cable lengths	4.146E+07	3.636E+07	4.000E+07	4.000E+07	90.90%	1001036	Electric Power Research Institute	accident radiation
00-22b	10/25/00-10/30/00	400 hp motor frame, 22 coils	4.152E+07	3.641E+07	4.000E+07	4.000E+07	91.03%	1001036	Electric Power Research Institute	accident radiation
2001-24	6/26/01-7/6/01	2 mandrels	2.058E+08	1.805E+08	2.000E+08	2.000E+08	90.24%	1001390	Electric Power Research Institute	

GT Reference	Irradiation Period	Specimen ID	Actual Total Dose, R	Actual Total Dose, rad	Wyle Required Test Dose, rad	Customer Required Dose, rad	Actual Total Dose / Customer Required Dose, %	Wyle Report No.	Customer	Comments
9812	4/16/98-4/17/98	5 PAR cartridges	1.021E+07	8.954E+06	1.000E+07	7.600E+06	117.82%	46189, Rev. C	Energy Nuclear NE (formerly Con Ed)	

GT Reference	Irradiation Period	Specimen ID	Actual Total Dose, R	Actual Total Dose, rad	Wyle Required Test Dose, rad	Customer Required Dose, rad	Actual Total Dose / Customer Required Dose, %	Wyle Report No.	Customer	Comments
00-06	3/9/00-3/14/00	1 pipe insulation sample	1.033E+08	9.059E+07	1.000E+08	1.000E+08	90.59%	44037 C of C No. 1	Entergy Operations, Inc.	

GT Reference	Irradiation Period	Specimen ID	Actual Total Dose, R	Actual Total Dose, rad	Wyle Required Test Dose, rad	Customer Required Dose, rad	Actual Total Dose / Customer Required Dose, %	Wyle Report No.	Customer	Comments
2001-18	5/14/01-5/14/01	3 Valtek actuators	4.873E+06	4.274E+06	4.740E+06	4.740E-06	90.16%	44388R02	Flowsolve	normal radiation aging

GT Reference	Irradiation Period	Specimen ID	Actual Total Dose, R	Actual Total Dose, rad	Wyle Required Test Dose, rad	Customer Required Dose, rad	Actual Total Dose / Customer Required Dose, %	Wyle Report No.	Customer	Comments
00-15a	6/7/00-6/8/00	20 gaskets, 3 small terminal blocks, 1 gallon grease	1.131E+07	9.919E+06	1.100E+07	1.000E+07	99.19%	43137R01, Rev. A	Hyosung Corporation	normal + accident TID
00-15b	6/8/00-6/9/00	6 bearings, 3 terminal blocks	1.135E+07	9.954E+06	1.100E+07	1.000E+07	99.54%	43137R01, Rev. A	Hyosung Corporation	normal + accident TID
00-15c	6/9/00-6/12/00	two 50 Hp motors	1.185E+07	1.039E+07	1.100E+07	1.000E+07	103.92%	43137R01, Rev. A	Hyosung Corporation	normal + accident TID
00-15d	6/12/00-6/14/00	two 7.5 Hp motors	1.138E+07	9.980E+06	1.100E+07	1.000E+07	99.80%	43137R01, Rev. A	Hyosung Corporation	normal + accident TID

GT Reference	Irradiation Period	Specimen ID	Actual Total Dose, R	Actual Total Dose, rad	Wyle Required Test Dose, rad	Customer Required Dose, rad	Actual Total Dose / Customer Required Dose, %	Wyle Report No.	Customer	Comments
9824	10/12/88-10/13/88	41799M92VAL001	8.172E+06	7.167E+06	7.980E+06	7.400E+06	96.85%	41799R98, Rev. A	Niagara Mohawk Power Corporation	normal + accident TID

GT Reference	Irradiation Period	Specimen ID	Actual Total Dose, R	Actual Total Dose, rad	Wyle Required Test Dose, rad	Customer Required Dose, rad	Actual Total Dose / Customer Required Dose, %	Wyle Report No.	Customer	Comments
9816	5/26/98-6/9/98	1 cable tray	2.042E+08	1.791E+08	2.000E+08	2.000E-08	89.54%	46879-1	Promatec Technologies Inc.	

GT Reference	Irradiation Period	Specimen ID	Actual Total Dose, R	Actual Total Dose, rad	Wyle Required Test Dose, rad	Customer Required Dose, rad	Actual Total Dose / Customer Required Dose, %	Wyle Report No.	Customer	Comments
00-17a	7/14/00-7/25/00	mandrels 2, 4, 8, 13, 15	1.696E+08	1.487E+08	1.660E+08	1.500E+08	99.16%	43854 report not issued as of 4-22-2002	Raychem/Tyco Electronics Corp	accident radiation
00-17b	7/27/00-8/11/00	mandrels 1, 3, 6, 12, 14	2.239E+08	1.964E+08	2.150E+08	2.000E+08	96.18%	43854 report not issued as of 4-22-2002	Raychem/Tyco Electronics Corp	normal 40 y + accident TID
00-17b,c	7/27/00-8/18/00	mandrel 5	2.490E+08	2.184E+08	2.400E+08	2.250E+08	97.05%	43854 report not issued as of 4-22-2002	Raychem/Tyco Electronics Corp	normal 60 y + accident TID
00-17d	8/29/00-9/11/00	trays 3, 6	1.697E+08	1.488E+08	1.650E+08	1.500E+08	99.22%	43854 report not issued as of 4-22-2002	Raychem/Tyco Electronics Corp	accident radiation
00-17e,f	9/21/00-10/9/00	trays 1, 2, 4, 5, 7	2.225E+08	1.951E+08	2.150E+08	2.000E+08	97.57%	43854 report not issued as of 4-22-2002	Raychem/Tyco Electronics Corp	normal 40 y + accident TID
00-17g	10/13/00-10/16/00	tray 8	4.071E+07	3.570E+07	3.960E+07	3.960E+07	90.16%	43854 report not issued as of 4-22-2002	Raychem/Tyco Electronics Corp	-



GT Reference	Irradiation Period	Specimen ID	Actual Total Dose, R	Actual Total Dose, rad	Wyle Required Test Dose, rad	Customer Required Dose, rad	Actual Total Dose / Customer Required Dose, %	Wyle Report No.	Customer	Comments
97-17	11/21/97-11/26/97	SXM-1	5.233E+07	4.589E+07	5.000E+07	5.000E+07	91.78%	45925-1	Schulz Electric Company	normal radiation aging
97-17	11/21/97-11/26/97	SXM-2	5.223E+07	4.580E+07	5.000E+07	5.000E+07	91.60%	45925-1	Schulz Electric Company	normal radiation aging
97-17	11/21/97-12/18/97	SXM-3	5.230E+07	4.587E+07	5.000E+07	5.000E+07	91.73%	45925-1	Schulz Electric Company	normal radiation aging
97-17	11/21/97-12/18/97	SXM-4	5.135E+07	4.503E+07	5.000E+07	5.000E+07	90.07%	45925-1	Schulz Electric Company	normal radiation aging
97-17	11/21/97-12/18/97	SXM-5	6.025E+07	5.284E+07	5.000E+07	5.000E+07	105.68%	45925-1	Schulz Electric Company	normal radiation aging
97-17	11/21/97-12/12/97	SXM-7	5.105E+07	4.477E+07	5.000E+07	5.000E+07	89.54%	45925-1	Schulz Electric Company	normal radiation aging
97-17	12/15/97-12/17/97	Motor Frame 8 (SXM-8, SXM-9, SXM-10, & SXM-11)	2.042E+07	1.791E+07	2.000E+07	2.000E+07	89.54%	45925-1	Schulz Electric Company	normal radiation aging
9817	7/1/98-7/23/98	SXM-7, SXM-2	1.729E+08	1.516E+08	1.694E+08	1.540E+08	98.46%	45925-1	Schulz Electric Company	accident radiation
9817	7/1/98-7/23/98	Motor Frame 8 (SXM-8, SXM-9, SXM-10, & SXM-11)	4.492E+07	3.939E+07	4.400E+07	4.000E+07	98.49%	45925-1	Schulz Electric Company	accident radiation

GT Reference	Irradiation Period	Specimen ID	Actual Total Dose, R	Actual Total Dose, rad	Wyle Test Dose, rad	Customer Required Dose, rad	Actual Total Dose / Customer Required Dose, %	Wyle Report No.	Customer	Comments
9813a	4/21/98-4/24/98	1	2.975E+07	2.609E+07	3.000E+07	3.000E+07	86.97%	46656-1, Rev. A	Weed Instrument Company, Inc.	-
9813a-b	4/21/98-4/30/98	2	6.956E+07	6.100E+07	6.800E+07	6.800E+07	89.71%	46656-1, Rev. A	Weed Instrument Company, Inc.	-
9813a	4/21/98-4/24/98	3	3.097E+07	2.716E+07	3.000E+07	3.000E+07	90.54%	46656-1, Rev. A	Weed Instrument Company, Inc.	-
9813a-e	4/21/98-5/6/98	4	2.043E+08	1.792E+08	2.000E+08	2.000E+08	89.59%	46656-1, Rev. A	Weed Instrument Company, Inc.	-
9813a-b	4/21/98-4/30/98	5	6.944E+07	6.090E+07	6.800E+07	6.800E+07	88.56%	46656-1, Rev. A	Weed Instrument Company, Inc.	-
9813a	4/21/98-4/24/98	6	3.029E+07	2.657E+07	3.000E+07	3.000E+07	91.29%	46656-1, Rev. A	Weed Instrument Company, Inc.	-
9813a-b	4/21/98-4/30/98	7	7.078E+07	6.207E+07	6.800E+07	6.800E+07	90.09%	46656-1, Rev. A	Weed Instrument Company, Inc.	-
9813a-b	4/21/98-4/30/98	8	6.985E+07	6.126E+07	6.800E+07	6.800E+07	89.31%	46656-1, Rev. A	Weed Instrument Company, Inc.	-
9813a	4/21/98-4/24/98	9	3.055E+07	2.679E+07	3.000E+07	3.000E+07	87.81%	46656-1, Rev. A	Weed Instrument Company, Inc.	-
9813a	4/21/98-4/24/98	10	3.004E+07	2.694E+07	3.000E+07	3.000E+07	90.40%	46656-1, Rev. A	Weed Instrument Company, Inc.	-
9813a-b	4/21/98-4/30/98	11	7.009E+07	6.147E+07	6.800E+07	6.800E+07	89.67%	46656-1, Rev. A	Weed Instrument Company, Inc.	-
9813a-b	4/21/98-5/6/98	12	2.045E+08	1.793E+08	2.000E+08	2.000E+08	89.22%	46656-1, Rev. A	Weed Instrument Company, Inc.	-
9822	8/17/98-8/24/98	2	1.367E+08	1.199E+08	1.300E+08	1.300E+08	91.82%	46656-1, Rev. A	Weed Instrument Company, Inc.	-
9822	8/17/98-8/24/98	11	1.361E+08	1.194E+08	1.300E+08	1.300E+08	90.57%	46656-1, Rev. A	Weed Instrument Company, Inc.	-
9908a	6/23/99-6/30/99	4, 5, 6, 10, 15, 21	1.136E+08	9.963E+07	1.100E+08	1.100E+08	91.05%	42692-1, Rev. A	Weed Instrument Company, Inc.	-
9908a,b,c	6/23/99-7/6/99	2, 8, 12, 13, 14, 18, 22, 23	2.0764E+08	1.8210E+08	2.000E+08	2.000E+08	91.05%	42692-1, Rev. A	Weed Instrument Company, Inc.	-