

January 15, 2006

(UPS: 301-415-6334)

Mr. Michael G. Raddatz, Sr. Project Manager
U.S. Nuclear Regulatory Commission
Uranium Processing Section, Div. of Fuel Cycle Safety and Safeguards
Fuel Cycle Facilities Branch, Mail Stop T-8A33
Office of Nuclear Material Safety and Safeguards
Two White Flint North, 11545 Rockville Pike
Rockville, MD 20852-2738

Dear Mr. Raddatz,

During the week of December 12, 2005, several members of the Honeywell Metropolis Works staff met with you and members of the NRC staff during your site visit. The purpose of these meetings was to discuss the status of the Honeywell Metropolis Works license renewal process (USNRC License SUB-526, Docket # 40-3392). During these meetings, you and your staff identified a number of issues requiring clarification prior to issuance of the renewed license. Much of the clarifying information was provided during your site visit. The purpose of this letter is to transmit the remainder of the requested information.

Attachment A provides additional and corrected environmental information requested by Mr. Neal Hagerty of your staff, including:

- Revised Table 2.1-3 of the Environmental Report;
- Revised Table 3.4-3 of the Environmental Report
- Gross Alpha/Beta Effluent Analyses for the Years 2001 through 2004; and
- The response to Question 2.1.2.2-2 on the Environmental Report addressing NH₃ release data for the years 2000 and 2001.

Also enclosed, please find a CD providing both redline/strikeout and corrected versions of Honeywell's updated Application for License Renewal and Safety Demonstration Report. These documents have been updated to reflect the corrections, clarifications, and additional information provided in previous correspondence, including Honeywell's responses to NRC's Administrative Review Questions and Requests for Additional Information (RAIs) and issues discussed during your site visit.

We are also completing our evaluation of additional accident scenarios discussed during your visit and revising our Integrated Safety Analysis (ISA) to reflect this evaluation and to incorporate our listing of plant procedures that are to be considered Plant Features and Procedures that are important to safety, as requested. Consistent with your

request, we expect to forward our revised ISA to you within ninety (90) days following issuance of the renewed license.

If you should have any questions on the enclosed information or other issues associated with the Metropolis Works' license renewal, please contact Mr. James Tortorelli, Regulatory Affairs Manager, at 618-524-6221.

Sincerely,

A handwritten signature in black ink, appearing to read "David B. Edwards". The signature is stylized with a large initial "D" and a prominent "E".

David B. Edwards
Plant Manager

Attachment A – Additional Environmental Information

Table 2.1-3 Discharge Direction, Stack Height, Flow And Annual Uranium Emissions For The Years 2000 - 2004

Stack No.	Description	Discharge Direction	Height m	Rated Flow m ³ /min	Uranium emissions (Ci/yr)				
					2000	2001	2002	2003	2004
1-1	Wet oxide dust collector	V	30	143	1.55E-03	2.43E-03	7.71E-04	2.84E-04	6.73E-05
1-2	Dry oxide dust collector	H	32	75	2.77E-03	6.59E-03	3.52E-03	9.27E-05	4.49E-05
1-3	Drum cleaner dust collector	V	12	122	1.76E-04	2.51E-04	1.51E-04	1.86E-04	2.79E-04
1-4	Oxide vacuum cleaner	H	30	12	2.54E-05	1.04E-04	2.69E-04	2.22E-04	1.55E-04
1-7	UF ₄ vacuum cleaner	H	4	21	1.31E-04	1.81E-04	1.41E-03	2.33E-04	2.50E-04
1-10	"B" UF ₄ dust collector	V	30	82	1.46E-03	1.89E-04	9.10E-05	2.94E-03	3.27E-03
1-11	Dust collector for secondary DC	V	12	167	7.57E-05	5.83E-06	6.45E-07	8.45E-09	0.00E+00
1-12	Ash vacuum cleaner	H	26	73	8.41E-03	1.19E-02	9.01E-03	2.94E-03	5.37E-03
1-12	Ash dust collector	H	26	73	3.24E-03	1.42E-03	1.36E-03	2.26E-04	1.40E-04
1-13	"A" fluorination coke box	V	32	5	1.03E-02	1.37E-02	3.13E-02	2.25E-02	1.09E-02
1-14	"B" fluorination coke box	V	32	5	2.44E-02	1.14E-02	4.29E-02	4.11E-02	1.36E-02
1-46	"A" UF ₄ dust collector	V	30	38	6.65E-05	5.50E-03	7.80E-04	7.07E-04	6.77E-05
1-48	H ₂ S incinerator stack	V	47	184	1.62E-04	2.05E-03	1.22E-04	6.37E-05	8.16E-05
1-54	Drum inverter dust collector	V	6	436	1.72E-03	2.94E-03	9.83E-03	4.52E-03	3.74E-04
3-2	U-recovery dust collector	V	12	13	1.34E-05	1.98E-05	7.92E-06	1.50E-08	2.44E-08

Table 2.1-3 Discharge Direction, Stack Height, Flow And Annual Uranium Emissions For The Years 2000 - 2004

Stack No.	Description	Discharge Direction	Height m	Rated Flow m ³ /min	Uranium emissions (Ci/yr)				
					2000	2001	2002	2003	2004
4-2	Pond mud calciner	V	9	93	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
17-1	Sampling plant dust collector	V	7	214	1.32E-04	5.31E-05	3.93E-05	3.83E-05	4.03E-05
17-2	Sampling plant vacuum cleaner	H	4	14	7.04E-06	4.79E-06	2.41E-06	2.17E-06	1.42E-06
Total process emissions					5.46E-02	5.87E-02	1.02E-01	7.61E-02	3.46E-02
1-15	"A" reductor blower	H	23	28	5.69E-04	4.19E-04	2.73E-04	2.71E-04	1.43E-04
1-16	"B" reductor blower	H	23	28	1.57E-03	4.62E-04	4.55E-04	2.66E-04	1.70E-03
1-17	"A" top hydrofluorinator blower	H	14	188	4.16E-03	5.17E-03	5.09E-03	3.84E-03	2.61E-03
1-18	"A" bottom hydrofluorinator blower	H	4	188	2.93E-07	1.74E-06	2.31E-05	4.42E-06	1.29E-05
1-19	"B" top hydrofluorinator blower	H	12	28	4.70E-04	3.56E-04	1.66E-04	1.94E-04	2.95E-04
1-20	"B" bottom hydrofluorinator blower	H	14	28	2.61E-04	3.48E-04	4.52E-04	1.45E-04	2.51E-04
1-21	"A" fluorinator blower	H	9	120	5.85E-04	2.46E-04	5.91E-04	3.08E-04	2.21E-04
1-22	"B" fluorinator blower	H	9	120	3.22E-04	3.59E-04	0.00E+00	0.00E+00	4.05E-04
1-26	Ore prep multifloor exhaust	V	18	400	2.95E-06	3.89E-05	2.51E-04	9.26E-04	0.00E+00

Table 2.1-3 Discharge Direction, Stack Height, Flow And Annual Uranium Emissions For The Years 2000 - 2004

Stack No.	Description	Discharge Direction	Height m	Rated Flow m ³ /min	Uranium emissions (Ci/yr)				
					2000	2001	2002	2003	2004
1-27	Exhaust fan 1 st floor south	H	5	651	3.36E-04	4.64E-04	2.20E-04	1.74E-04	1.62E-04
1-28	Exhaust fan 1 st floor west	H	5	651	3.51E-03	1.84E-03	4.56E-03	2.23E-03	2.90E-03
1-29	Exhaust fan 2 nd floor south	H	9	651	5.06E-03	4.31E-03	4.08E-03	5.16E-04	1.32E-03
1-30	Exhaust fan 3 rd floor south	H	14	651	4.77E-03	4.13E-03	4.80E-03	2.18E-03	3.26E-03
1-31	Exhaust fan 3 rd floor west	H	14	651	3.85E-03	4.06E-03	3.75E-03	5.57E-04	1.43E-03
1-32	Exhaust fan 3 rd floor south	H	14	651	2.81E-03	9.05E-04	3.63E-03	1.34E-03	2.55E-03
1-33	Exhaust fan 3 rd floor north	H	14	651	3.65E-03	8.10E-04	3.40E-05	0.00E+00	1.34E-05
1-34	Exhaust fan 4 th floor south	H	18	651	4.48E-03	4.98E-03	5.94E-03	8.05E-04	9.83E-04
1-35	Exhaust fan 4 th floor west	H	18	651	3.95E-03	5.16E-03	5.45E-03	1.55E-03	2.29E-03
1-36	Exhaust fan 4 th floor south	H	18	651	4.40E-03	4.83E-03	5.05E-03	2.36E-03	3.68E-03
1-37	Exhaust fan 5 th floor south	H	23	651	1.80E-03	1.01E-03	2.89E-03	1.92E-03	1.51E-03
1-38	Exhaust fan 5 th floor west	H	23	651	3.54E-03	3.82E-03	2.79E-03	1.70E-03	1.99E-03
1-39	Exhaust fan 5 th floor south	H	23	651	3.34E-03	3.76E-03	1.86E-03	1.97E-03	2.05E-03
1-41	Exhaust fan overhead no. 2	V	27	708	4.07E-03	4.47E-03	2.82E-03	3.18E-04	4.25E-05
1-42	Exhaust fan overhead no. 3	V	27	708	1.11E-03	3.95E-03	3.03E-03	3.16E-03	2.03E-03

Table 2.1-3 Discharge Direction, Stack Height, Flow And Annual Uranium Emissions For The Years 2000 - 2004

Stack No.	Description	Discharge Direction	Height m	Rated Flow m ³ /min	Uranium emissions (Ci/yr)				
					2000	2001	2002	2003	2004
1-43	Exhaust fan overhead no. 4	V	27	708	4.97E-03	5.50E-03	3.60E-03	2.36E-03	2.24E-03
1-45	NH ₃ Dissociator vent	V	18	356	3.14E-03	2.38E-03	3.04E-03	2.16E-03	1.79E-03
1-47	"C" fluorinator blower	H	9	120	1.82E-04	5.06E-04	9.65E-05	4.57E-04	1.40E-03
1-49	Distillation multifloor exhaust	H	4	1132	1.14E-03	1.10E-03	1.17E-03	1.15E-03	1.50E-03
1-50	"A" reductor off-gas	H	20	21	3.35E-05	3.22E-05	2.41E-05	2.61E-05	3.91E-05
1-51	"B" reductor off-gas	H	20	34	5.61E-05	5.22E-05	3.61E-05	4.05E-05	1.47E-04
1-55	Exhaust fan 3 rd floor north	H	14	242	5.99E-04	7.58E-04	8.41E-04	1.99E-04	5.31E-04
1-56	Exhaust fan distillation 1 st floor north	H	7	747	8.15E-04	5.54E-04	8.27E-04	5.30E-04	6.00E-04
1-57	Exhaust Fan, 1 st Floor South Maintenance Area	H	3	149	9.58E-04	1.07E-03	1.03E-03	3.87E-04	3.59E-04
17-58	Exhaust fan 3 rd floor east	H	4	214	3.38E-04	6.82E-04	4.34E-06	0.00E+00	0.00E+00
Total ventilation emissions					7.08E-02	6.85E-02	6.89E-02	3.40E-02	4.05E-02

**Table 3.4-3 NPDES Monitoring Data - Outfall 002 Five-Day
Biochemical Oxygen Demand (BOD)**

<u>MONITORING PERIOD END DATE</u>	<u>MAXIMUM QUANTITY (lbs/day)</u>	<u>AVERAGE QUANTITY (lbs/day)</u>	<u>MAXIMUM CONCENTRATION (mg/L)</u>	<u>AVERAGE CONCENTRATION (mg/L)</u>
28-FEB-2005	43.4	33.7	1.4	1.1
31-JAN-2005	250.0	166.2	8.6	5.5
31-DEC-2004	36.3	32.4	1.4	1.2
30-NOV-2004	38.1	25.4	1.2	0.8
31-OCT-2004	90.1	61.7	3.2	2.2
30-SEP-2004	4.0	2.3	0.2	0.1
31-AUG-2004	52.5	27.9	1.8	0.9
31-JUL-2004	31.3	20.4	1.1	0.7
30-JUN-2004	31.4	20.7	1.0	0.7
31-MAY-2004	31.4	18.9	1.1	0.6
30-APR-2004	197.7	105.4	6.7	3.6
31-MAR-2004	47.9	31.4	1.8	1.2
29-FEB-2004	76.6	40.6	2.9	1.5
31-JAN-2004	53.2	48.8	1.9	1.8
31-DEC-2003	75.4	39.3	2.7	1.4
30-NOV-2003	70.4	62.2	2.4	2.0
31-OCT-2003	23.5	16.4	1.2	0.8
30-SEP-2003	42.0	32.4	2.0	1.6
31-AUG-2003	54.8	47.1	1.9	1.7
31-JUL-2003	87.9	52.3	3.1	1.9
30-JUN-2003	77.3	77.3	2.8	2.8
31-MAY-2003	78.8	53.7	2.6	1.8
30-APR-2003	110.4	76.1	3.7	2.6
31-MAR-2003	144.8	107.7	5.9	4.3
28-FEB-2003	161.3	119.2	5.7	4.3
31-JAN-2003	215.6	164.5	7.1	5.5
31-DEC-2002	235.1	137.0	8.0	4.5
30-NOV-2002	144.1	113.8	4.8	3.9
31-OCT-2002	572.5	405.4	16.4	12.2
30-SEP-2002	166.2	157.4	5.8	5.3
31-AUG-2002	155.1	123.1	5.5	4.2
31-JUL-2002	106.0	79.0	3.6	2.6
30-JUN-2002	34.7	18.8	1.1	0.6
31-MAY-2002	100.3	92.9	3.2	3.1
30-APR-2002	264.1	188.4	9.1	6.5
31-MAR-2002	301.0	185.4	8.8	5.6
28-FEB-2002	183.3	121.4	6.0	4.2
31-JAN-2002	211.9	202.7	8.3	8.0
31-DEC-2001	57.5	52.5	2.3	2.1
30-NOV-2001	46.3	32.1	2.7	1.3
31-OCT-2001	51.6	27.8	2.0	1.1
30-SEP-2001	41.7	37.9	18.8	1.5
31-AUG-2001	68.2	48.8	2.7	1.9
31-JUL-2001	476.9	258.3	18.8	10.2

<u>MONITORING PERIOD END DATE</u>	<u>MAXIMUM QUANTITY (lbs/day)</u>	<u>AVERAGE QUANTITY (lbs/day)</u>	<u>MAXIMUM CONCENTRATION (mg/L)</u>	<u>AVERAGE CONCENTRATION (mg/L)</u>
30-JUN-2001	133.3	114.2	12.4	4.5
31-MAY-2001	90.0	59.8	3.5	2.4
30-APR-2001	74.0	70.2	18.0	2.8
31-MAR-2001	315.6	200.0	12.4	7.9
28-FEB-2001	98.9	96.5	3.9	3.8
31-JAN-2001	457.6	292.5	18.0	11.5

Quantity is measured in pounds per day (lbs/day) and concentration is milligrams per liter (mg/L).

Table 3.4-3 NPDES Monitoring Data - Outfall 002 (continued)

pH

<u>MONITORING PERIOD</u> <u>END DATE</u>	<u>MAXIMUM</u> <u>CONCENTRATION (SU)</u>	<u>MINIMUM</u> <u>CONCENTRATION (SU)</u>
28-FEB-2005	7.8	7.2
31-JAN-2005	7.6	7.4
31-DEC-2004	7.7	7.3
30-NOV-2004	7.6	7.2
31-OCT-2004	7.7	7.5
30-SEP-2004	7.7	7.5
31-AUG-2004	7.8	7.3
31-JUL-2004	7.6	7.2
30-JUN-2004	7.5	7.1
31-MAY-2004	7.7	7.3
30-APR-2004	7.6	7.3
31-MAR-2004	7.7	6.9
29-FEB-2004	7.5	7.0
31-JAN-2004	7.4	7.0
31-DEC-2003	7.4	7.2
30-NOV-2003	7.8	7.3
31-OCT-2003	7.7	7.4
30-SEP-2003	8.0	7.2
31-AUG-2003	7.7	7.1
31-JUL-2003	7.9	7.2
30-JUN-2003	7.9	7.0
31-MAY-2003	7.4	7.0
30-APR-2003	7.5	7.3
31-MAR-2003	7.7	7.2
28-FEB-2003	7.5	7.2
31-JAN-2003	7.5	7.4
31-DEC-2002	7.6	7.5
30-NOV-2002	7.6	7.2
31-OCT-2002	7.6	7.3
30-SEP-2002	7.4	7.3
31-AUG-2002	7.4	7.3
31-JUL-2002	7.3	7.2
30-JUN-2002	7.5	7.4
31-MAY-2002	7.6	7.2
30-APR-2002	7.5	7.1
31-MAR-2002	7.4	7.1
28-FEB-2002	7.3	7.2
31-JAN-2002	7.4	7.2
31-DEC-2001	8.3	7.4
30-NOV-2001	8.9	7.3
31-OCT-2001	7.4	7.1
30-SEP-2001	7.7	7.4
31-AUG-2001	7.9	7.3

<u>MONITORING PERIOD</u> <u>END DATE</u>	<u>MAXIMUM</u> CONCENTRATION (SU)	<u>MINIMUM</u> CONCENTRATION (SU)
31-JUL-2001	7.2	6.9
30-JUN-2001	7.3	6.7
31-MAY-2001	7.4	6.9
30-APR-2001	7.8	7.1
31-MAR-2001	7.6	7.3
28-FEB-2001	7.6	7.2
31-JAN-2001	7.7	7.6

Table 3.4-3 NPDES Monitoring Data - Outfall 002 Total Suspended Solids (TSS) - Effluent Location (continued)

<u>MONITORING PERIOD END DATE</u>	<u>MAXIMUM QUANTITY (lbs/day)</u>	<u>AVERAGE QUANTITY (lbs/day)</u>	<u>MAXIMUM CONCENTRATION (mg/L)</u>	<u>AVERAGE CONCENTRATION (mg/L)</u>
28-FEB-2005	33.2	26.4	1.1	0.9
31-JAN-2005	112.2	63.3	3.7	2.1
31-DEC-2004	59.4	27.4	2.0	1.0
30-NOV-2004	66.0	42.9	2.1	1.4
31-OCT-2004	33.4	27.3	1.2	1.0
30-SEP-2004	48.6	35.9	1.7	1.3
31-AUG-2004	63.5	44.0	2.3	1.5
31-JUL-2004	153.1	84.3	6.4	3.3
30-JUN-2004	94.3	37.8	3.0	1.2
31-MAY-2004	30.3	18.8	1.0	0.6
30-APR-2004	38.6	22.3	1.3	0.8
31-MAR-2004	33.3	24.7	1.2	0.9
29-FEB-2004	21.7	14.8	0.8	0.6
31-JAN-2004	17.3	13.6	0.6	0.5
31-DEC-2003	81.4	33.6	2.5	1.1
30-NOV-2003	71.6	39.9	2.4	1.4
31-OCT-2003	64.4	27.2	2.9	1.3
30-SEP-2003	113.2	53.2	4.4	2.0
31-AUG-2003	61.9	36.8	2.1	1.3
31-JUL-2003	80.7	41.9	2.9	1.5
30-JUN-2003	224.5	94.1	7.1	3.2
31-MAY-2003	70.8	35.1	2.7	1.3
30-APR-2003	183.4	59.3	6.5	2.1
31-MAR-2003	222.6	85.7	7.4	3.0
28-FEB-2003	71.3	54.8	2.6	2.0
31-JAN-2003	134.1	68.1	3.5	2.1
31-DEC-2002	58.3	52.9	1.9	1.8
30-NOV-2002	40.3	30.9	1.4	1.1
31-OCT-2002	23.6	18.6	0.8	0.6
30-SEP-2002	38.5	22.2	1.4	0.8
31-AUG-2002	157.0	61.9	5.2	2.1
31-JUL-2002	55.5	33.3	1.8	1.1
30-JUN-2002	57.4	27.9	1.8	0.9
31-MAY-2002	43.5	33.8	1.4	1.1
30-APR-2002	151.3	68.1	4.9	2.3
31-MAR-2002	92.2	45.1	2.7	1.4
28-FEB-2002	98.3	39.1	3.0	1.3
31-JAN-2002	61.0	30.0	4.8	3.7
31-DEC-2001	58.5	36.2	5.6	4.2
30-NOV-2001	170.4	65.6	8.6	4.3
31-OCT-2001	40.7	29.9	4.6	3.1
30-SEP-2001	30.5	22.3	8.9	5.5

<u>MONITORING PERIOD</u> <u>END DATE</u>	<u>MAXIMUM</u> <u>QUANTITY</u> (lbs/day)	<u>AVERAGE</u> <u>QUANTITY</u> (lbs/day)	<u>MAXIMUM</u> <u>CONCENTRATION</u> (mg/L)	<u>AVERAGE</u> <u>CONCENTRATION</u> (mg/L)
31-AUG-2001	58.5	42.2	3.8	2.5
31-JUL-2001	40.7	17.2	2.5	1.8
30-JUN-2001	38.2	32.4	2.2	1.8
31-MAY-2001	28.0	15.3	2.5	1.8
30-APR-2001	43.2	25.4	3.4	1.9
31-MAR-2001	43.2	29.9	4.2	2.7
28-FEB-2001	798.6	219.8	5.5	2.7
31-JAN-2001	221.2	70.7	4.4	3.0

Values are effluent gross. Quantity is measured in pounds per day (lbs/day) and concentration is milligrams per liter (mg/L).

Table 3.4-3 NPDES Monitoring Data - Outfall 002 Total Suspended Solids (TSS) - Process Location - (continued)

<u>MONITORING PERIOD</u> <u>END DATE</u>	<u>MAXIMUM</u> <u>CONCENTRATION (mg/L)</u>	<u>AVERAGE</u> <u>CONCENTRATION (mg/L)</u>
28-FEB-2005	2.2	1.8
31-JAN-2005	7.5	4.2
31-DEC-2004	3.8	1.8
30-NOV-2004	4.0	2.7
31-OCT-2004	2.1	1.8
30-SEP-2004	3.6	2.5
31-AUG-2004	4.7	3.1
31-JUL-2004	11.3	6.1
30-JUN-2004	6.1	2.6
31-MAY-2004	2.2	1.4
30-APR-2004	2.9	1.7
31-MAR-2004	2.2	1.8
29-FEB-2004	1.4	1.0
31-JAN-2004	1.2	0.9
31-DEC-2003	5.2	2.2
30-NOV-2003	4.6	2.6
31-OCT-2003	4.9	2.0
30-SEP-2003	6.7	3.5
31-AUG-2003	4.2	2.6
31-JUL-2003	5.7	2.9
30-JUN-2003	12.3	5.7
31-MAY-2003	4.6	2.3
30-APR-2003	11.6	3.8
31-MAR-2003	14.2	5.7
28-FEB-2003	5.1	3.7
31-JAN-2003	7.6	4.2
31-DEC-2002	3.8	3.5
30-NOV-2002	2.9	2.1
31-OCT-2002	1.5	1.1
30-SEP-2002	2.9	1.6
31-AUG-2002	9.0	3.8
31-JUL-2002	3.6	2.2
30-JUN-2002	3.8	1.9
31-MAY-2002	2.7	2.2
30-APR-2002	10.7	4.6
31-MAR-2002	5.4	2.8
28-FEB-2002	6.2	2.5
31-JAN-2002	4.4	2.3
31-DEC-2001	3.1	2.3
30-NOV-2001	13.3	5.8
31-OCT-2001	3.3	2.3
30-SEP-2001	2.3	1.7
31-AUG-2001	4.7	3.3

<u>MONITORING PERIOD</u> <u>END DATE</u>	<u>MAXIMUM</u> CONCENTRATION (mg/L)	AVERAGE CONCENTRATION (mg/L)
31-JUL-2001	4.1	2.1
30-JUN-2001	3.1	2.5
31-MAY-2001	2.2	1.2
30-APR-2001	2.9	1.8
31-MAR-2001	2.9	2.0
28-FEB-2001	68.1	18.3
31-JAN-2001	15.4	5.0

Quantity is measured in pounds per day (lbs/day) and concentration is milligrams per liter (mg/L).

Table 3.4-3 NPDES Monitoring Data - Outfall 002 Total Fluoride
- (continued)

<u>MONITORING PERIOD END DATE</u>	<u>MAXIMUM QUANTITY (lbs/day)</u>	<u>AVERAGE QUANTITY (lbs/day)</u>	<u>MAXIMUM CONCENTRATION (mg/L)</u>	<u>AVERAGE CONCENTRATION (mg/L)</u>
28-FEB-2005	85.6	63.2	2.8	2.1
31-JAN-2005	78.7	68.2	2.6	2.3
31-DEC-2004	72.3	48.9	2.5	1.7
30-NOV-2004	109.6	73.8	3.5	2.4
31-OCT-2004	76.0	69.6	2.7	2.5
30-SEP-2004	48.8	43.5	1.7	1.5
31-AUG-2004	91.7	55.2	3.0	1.9
31-JUL-2004	96.5	67.3	3.4	2.5
30-JUN-2004	280.4	104.0	8.9	3.3
31-MAY-2004	80.9	48.5	2.7	1.6
30-APR-2004	24.0	21.5	0.8	0.8
31-MAR-2004	58.3	35.9	2.1	1.3
29-FEB-2004	61.3	43.7	2.3	1.6
31-JAN-2004	58.8	42.3	2.0	1.5
31-DEC-2003	59.6	49.0	1.8	1.7
30-NOV-2003	72.8	58.9	2.4	2.1
31-OCT-2003	53.0	35.6	2.4	1.7
30-SEP-2003	205.3	80.3	5.4	2.7
31-AUG-2003	116.9	71.6	3.9	2.5
31-JUL-2003	160.2	91.5	5.8	3.2
30-JUN-2003	152.4	82.4	4.8	2.9
31-MAY-2003	119.2	82.9	4.0	2.9
30-APR-2003	129.2	99.4	4.6	3.6
31-MAR-2003	104.1	76.6	3.5	2.8
28-FEB-2003	578.3	222.1	18.5	7.5
31-JAN-2003	158.4	107.9	5.2	3.5
31-DEC-2002	126.2	102.4	4.2	3.4
30-NOV-2002	147.7	75.8	5.2	2.6
31-OCT-2002	80.1	59.5	2.6	2.0
30-SEP-2002	133.5	77.8	4.4	2.7
31-AUG-2002	158.2	113.3	5.2	3.8
31-JUL-2002	192.3	116.2	6.3	3.9
30-JUN-2002	94.0	72.8	3.0	2.4
31-MAY-2002	123.6	93.9	4.0	3.1
30-APR-2002	151.8	105.6	4.9	3.5
31-MAR-2002	212.0	146.9	7.1	4.8
28-FEB-2002	115.4	88.9	4.1	3.1
31-JAN-2002	122.1	65.1	4.8	3.7
31-DEC-2001	143.5	57.0	5.6	4.2
30-NOV-2001	219.2	35.1	8.6	4.3
31-OCT-2001	116.0	39.9	4.6	3.1
30-SEP-2001	226.4	73.3	8.9	5.5
31-AUG-2001	95.6	24.9	3.8	2.5

<u>MONITORING PERIOD END DATE</u>	<u>MAXIMUM QUANTITY (lbs/day)</u>	<u>AVERAGE QUANTITY (lbs/day)</u>	<u>MAXIMUM CONCENTRATION (mg/L)</u>	<u>AVERAGE CONCENTRATION (mg/L)</u>
31-JUL-2001	64.6	21.6	2.5	1.8
30-JUN-2001	57.0	38.4	2.2	1.8
31-MAY-2001	64.1	28.5	2.5	1.8
30-APR-2001	87.5	25.5	3.4	1.9
31-MAR-2001	107.3	29.0	4.2	2.7
28-FEB-2001	138.9	30.5	5.5	2.7
31-JAN-2001	111.9	49.9	4.4	3.0

Values are effluent gross. Quantity is measured in pounds per day (lbs/day) and concentration is milligrams per liter (mg/L).

**Table 3.4-3 NPDES Monitoring Data - Outfall 002 Total Uranium
(U₃O₈) (continued)**

<u>MONITORING PERIOD END DATE</u>	<u>AVERAGE QUANTITY (lbs/day)</u>	<u>MAXIMUM CONCENTRATION (mg/L)</u>	<u>AVERAGE CONCENTRATION (mg/L)</u>	<u>MINIMUM CONCENTRATION (mg/L)</u>
28-FEB-2005	2.39	0.18	0.08	0.03
31-JAN-2005	4.42	0.67	0.14	0.05
31-DEC-2004	3.05	0.27	0.10	0.04
30-NOV-2004	6.50	0.52	0.22	0.03
31-OCT-2004	4.12	0.50	0.15	0.05
30-SEP-2004	2.16	0.13	0.08	0.03
31-AUG-2004	1.04	0.11	0.04	0.01
31-JUL-2004	1.77	0.23	0.06	0.02
30-JUN-2004	3.30	0.43	0.10	0.03
31-MAY-2004	1.77	0.26	0.06	0.01
30-APR-2004	1.22	0.21	0.04	0.01
31-MAR-2004	1.48	0.29	0.05	0.01
29-FEB-2004	1.53	0.21	0.06	0.01
31-JAN-2004	1.59	0.19	0.05	0.02
31-DEC-2003	1.53	0.20	0.05	0.02
30-NOV-2003	2.44	0.30	0.08	0.01
31-OCT-2003	0.73	0.11	0.04	0.01
30-SEP-2003	2.98	0.38	0.10	0.01
31-AUG-2003	10.47	7.47	0.34	0.02
31-JUL-2003	3.04	0.36	0.10	0.03
30-JUN-2003	2.74	0.50	0.10	0.01
31-MAY-2003	4.14	0.53	0.14	0.01
30-APR-2003	2.98	0.41	0.11	0.03
31-MAR-2003	2.56	0.34	0.09	0.03
28-FEB-2003	5.06	0.52	0.17	0.04
31-JAN-2003	2.82	0.39	0.10	0.03
31-DEC-2002	4.65	0.49	0.15	0.03
30-NOV-2002	2.05	0.27	0.07	0.01
31-OCT-2002	3.52	0.56	0.11	0.03
30-SEP-2002	5.58	0.89	0.18	0.02
31-AUG-2002	2.18	0.58	0.07	0.02
31-JUL-2002	3.02	0.72	0.10	0.01
30-JUN-2002	1.61	0.21	0.05	0.01
31-MAY-2002	2.94	0.50	0.10	0.01
30-APR-2002	2.54	0.41	0.08	0.01
31-MAR-2002	3.25	0.63	0.11	0.01
28-FEB-2002	2.44	0.43	0.08	0.02
31-JAN-2002	1.82	0.34	0.07	0.00
31-DEC-2001	5.27	1.00	0.21	0.05
30-NOV-2001	2.65	0.70	0.10	0.01
31-OCT-2001	3.63	0.74	0.14	0.00
30-SEP-2001	2.20	0.35	0.09	0.01
31-AUG-2001	3.54	0.44	0.14	0.01

<u>MONITORING PERIOD END DATE</u>	<u>AVERAGE QUANTITY (lbs/day)</u>	<u>MAXIMUM CONCENTRATION (mg/L)</u>	<u>AVERAGE CONCENTRATION (mg/L)</u>	<u>MINIMUM CONCENTRATION (mg/L)</u>
31-JUL-2001	3.83	0.66	0.15	0.02
30-JUN-2001	4.56	0.89	0.18	0.02
31-MAY-2001	4.33	0.43	0.17	0.03
30-APR-2001	10.53	1.19	0.41	0.05
31-MAR-2001	8.15	0.97	0.32	0.02
28-FEB-2001	7.56	0.94	0.30	0.07
31-JAN-2001	3.42	0.45	0.13	0.03

Values are effluent gross. Quantity is measured in pounds per day (lbs/day) and concentration is milligrams per liter (mg/L).

2001 – 2004 Monthly Effluent Alpha and Beta Activity		
	Alpha $\mu\text{Ci/ml}$	Beta $\mu\text{Ci/ml}$
January 2001	4.50E-08	2.23E-07
February 2001	8.35E-08	1.17E-07
March 2001	7.75E-08	2.49E-07
April 2001	9.76E-08	3.33E-07
May 2001	3.77E-08	2.16E-07
June 2001	4.85E-08	1.88E-07
July 2001	3.89E-08	9.33E-08
August 2001	4.76E-08	7.49E-07
September 2001	2.12E-08	2.57E-07
October 2001	3.48E-08	1.12E-07
November 2001	1.62E-08	2.41E-07
December 2001	5.21E-08	1.66E-07
January 2002	3.37E-08	1.67E-07
February 2002	3.24E-08	2.60E-07
March 2002	3.37E-08	1.65E-07
April 2002	4.33E-08	2.10E-07
May 2002	3.48E-08	2.73E-07
June 2002	1.62E-08	5.77E-08
July 2002	3.54E-08	5.65E-08
August 2002	2.24E-08	1.96E-07

2001 – 2004 Monthly Effluent Alpha and Beta Activity		
	Alpha $\mu\text{Ci/ml}$	Beta $\mu\text{Ci/ml}$
September 2002	5.00E-08	2.56E-07
October 2002	3.62E-08	2.15E-07
November 2002	1.91E-08	1.41E-07
December 2002	3.39E-08	1.99E-07
January 2003	3.96E-08	2.30E-07
February 2003	5.25E-08	2.69E-07
March 2003	3.00E-08	3.84E-07
April 2003	4.41E-08	1.82E-07
May 2003	3.40E-08	1.77E-07
June 2003	2.93E-08	2.51E-07
July 2003	2.00E-08	1.68E-07
August 2003	2.82E-08	1.75E-07
September 2003	1.51E-08	1.98E-07
October 2003	1.11E-08	3.30E-07
November 2003	2.01E-08	5.09E-08
December 2003	1.49E-08	1.23E-07
January 2004	1.90E-08	9.83E-08
February 2004	1.28E-08	1.36E-08
March 2004	1.47E-08	4.66E-08
April 2004	6.51E-09	9.10E-08

2001 – 2004 Monthly Effluent Alpha and Beta Activity		
	Alpha $\mu\text{Ci/ml}$	Beta $\mu\text{Ci/ml}$
May 2004	1.71E-08	2.11E-07
June 2004	3.01E-08	1.61E-07
July 2004	7.98E-09	3.02E-07
August 2004	1.17E-08	1.06E-07
September 2004	1.78E-08	3.10E-07
October 2004	2.69E-08	3.43E-07
November 2004	9.94E-09	2.72E-08
December 2004	3.32E-08	2.23E-07

Response to NRC Question 2.1.2.2-2 Regarding NH₃ Emissions Data

Question 2.1.2.2-2: ER Table 2.1-4 (page 20 of 215) provides annual nonradiological air emission totals for the 2000 – 2004 timeframe. The corresponding table from the 1995 EA, Table 2.4, provided estimates of the 1993 emission totals for HF, NH₃, and SO₂ only.

- Please explain why NH₃ was identified as “n/a” for 2000 and 2001.

Response: The data presented in Table 2.1-4 were derived from MTW's Annual Air Emissions Report that Honeywell provides to the Illinois Environmental Protection Agency (IEPA) on an annual basis. Prior to 2002, IEPA did not require that Honeywell report NH₃ emissions in the Annual Air Emissions Report; the 2005 Environmental Report reflected this absence of data. Honeywell has calculated the NH₃ emissions data for 2000 and 2001 as follows:

Year 2000: 5.605 tons

Year 2001: 1.509 tons

The NH₃ emissions data consists of both stack emissions and fugitive emissions and the total NH₃ emissions tend to be dominated by contributions from operation of the uranium recovery process, when that process is operated. The process has not been operated since 2002; therefore, the NH₃ emissions have dropped significantly.

In the course of reviewing these data, Honeywell noted that the Year 2002 NH₃ emissions were reported incorrectly in ER Table 2.1-4; the correct value is 1.01 tons.