

1 Q. Have there been any subsequent events recorded by the air monitoring
2 stations that approach or exceed the levels prescribed in the standards used
3 by NLH?

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6 A. HTGS undertakes monitoring of the ambient air in the area surrounding the
7 facility in fulfillment of requirements of an agreement with the Department of
8 Environment and Conservation. Since 1992, HTGS has monitored sulphur
9 dioxide and total suspended particulate in the ambient air at the following
10 residential locations:

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- 12 • Indian Pond Road;
- 13 • Butterpot Road
- 14 • Green Acres Road; and,
- 15 • Lawrence Pond Road.

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17 The monitors are situated as close as feasible to residential locations
18 predicted to have greatest potential to record highest ground level
19 concentrations resulting from the HTGS in residential areas. In addition, a
20 Total Suspended Particulates ambient air monitor is located at the main gate
21 of the HTGS. As of November 2004, nitrogen oxides and PM_{2.5} (particulate
22 matter having a mean diameter of less than 2.5 micrometers) monitoring
23 equipment has been installed and commissioned at the Indian Pond Road,
24 Butterpot Road, Green Acres Road and Lawrence Pond Road sites, and a
25 new monitoring site was established at Indian Pond Drive. The locations of
26 the monitoring sites described are identified on the map found on page 3 of 3
27 of this response.

1 An independent consultant recently reviewed all of the ambient air monitoring
2 data collected at these sites from January 2001 to April 2005 as part of the
3 problem formulation component of a human health risk assessment of air
4 emissions from the HTGS. The preliminary results of that review have
5 indicated a single hourly maximum for sulphur dioxide at one location in
6 exceedance of the regulatory standard. The value recorded was 1362 ug/m³
7 and the regulatory standard is 900 ug/m³. However, a review of the data by
8 HTGS personnel indicates that the reading in question may have been
9 related to equipment calibration testing being undertaken at that time. The
10 review by the consultant indicated that the next highest value recorded
11 during the period was 699 ug/m³ at the Indian Pond Road site in 2003. The
12 review by the consultant indicates that there were no exceedances of the 3-
13 hour, 24-hour or annual regulatory standards for sulphur dioxide during the
14 period.

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16 In December 2005 the sulphur dioxide monitor at the Indian Pond Road site
17 recorded three consecutive ambient air concentrations in excess of the
18 regulatory limit. These were 970 ug/m³ at 1600 hours, 1106 ug/m³ at 1700
19 hours, and 1044 ug/m³ at 1800 hours. The quality control process instituted
20 at HTGS indicates that the monitoring equipment was performing
21 satisfactorily at the time.

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Application for Approval of Recovery of Costs
of 1% Sulphur Fuel through the RSP

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