COUNTY OF HILLSBOROUGH

MEMORANDUM

Date August 21, 1984

To Willard Hanks, DER through Jerry Campbell, EPC

From Victor San Agustin, EPC VSA

Subject: Construction Permit For NITRAM, INC.

The new plant is designed to recover more heat from the catalytic oxidation of ammonia. Pollutants (turbine gas) evolving from the absorption tower are preheated through 4 turbine gas heaters whose heat is derived from the initial chemical reaction. The turbine gas reaches a temperature of 900°F, is premixed with natural gas, and catalytically reduced to CO_2, H_2O, and N_2 on a theoretical basis. The manufacturer guarantees an outlet NO_x concentration of 200 PPM.

Having reviewed the application, I recommend approval to issue a construction permit with the following conditions:

1. Nitrogen oxides expressed as NO_2 shall not exceed 3 lbs/ton of 100% acid produced or 100.5 lbs/hr based on a maximum production rate of 33.5 TPH of 100% acid.

2. Visible emissions shall not exceed 5% opacity. [Chap. 1-3.03,VI,F.1.b of the HCEPC rules].

3. Compliance testing shall be by the test methods and procedures specified under 40 CFR 60.73.A simultaneous EPA Method 9 with a test duration of at least 60 minutes shall be required.

4. During compliance testing, the stacks shall be tested concurrently for NO_x and visible emissions.

5. Compliance testing shall be conducted within 30 days of start-up and within 10% of the maximum permitted production rate of 33.5 TPH of 100% acid.

6. The HCEPC shall be given at least 15 days written notice prior to compliance testing.

7. Nitram shall apply for a permit to operate by submitting a Certificate of Completion of Construction and compliance test results within 45 days of the testing date.

8. Nitram shall install, calibrate, maintain and operate a continous emission monitor. They shall comply with the emission monitoring requirements specified under 40 CFR 60.73.

9. Objectionable odors are not allowed.[Chap.1-3.03 of the HCEPC Rules]

10. The permitted production rate shall be 700 TPD or 255,500 TPY. to qualify for an exemption from FAC 17-2.500.

sw/6-A06

DER AIR PERMIT INVENTORY SYSTEM

PLANT DATA

NAME: NITRAM INC DIST: 40 CNTY: 29 PLANT: 0029

&LOC: 5331 HARTFORD AVE CITY: 43610 ZIP: 33601 OWNR: P TYPE: 12 # OF PNTS: 05

CONTACT: DAN ROSS ADDR: PO BOX 29688

CITY: TAMPA ST: FL ZIP: 33601

AQCR: 52 SIC: 28713

LAT: 28:02:32 LON: 82:25:31

UTM ZONE: 17 EAST: 363.1 NORTH: 3089.0

COMMENTS: 700 TPD HNO3 PLANT W/ 2 STACKS

DER AIR PERMIT INVENTORY SYSTEM

POINT DATA

NAME: _____ DIST: __ CNTY: __ PLANT: 00029

&LOC: _____ CITY: ___ ZIP: _____ OWNR: __ TYPE: __ # OF PNTS: __

POINT #: 06 TYPE: __ NUMBER OF SCC'S: __ NUMBER OF POLLUTANTS EMITTED: __

CONSTRUCT PATS: _____/__ #AC__-_____ OPERATE PATS: _____/ #AO__-_____

ISSUED: _____ EXPIRES: _____ (YYMMDD) ISSUED: _____ EXPIRES: _____ (YYMMDD)

DESCRIPTION: SINGLE PROCESS EXHAUSTING INTO 2 STACKS

(64 spaces maximum)

IPP: __ NEW/EXIST: N NSPS: X NESHAP: __ ECAP: __ COMMON POINTS: __-__

STACK HT: 55. DIAM: 2.5 TEMP: 200F FLOW: 133400 CFM PLUME: ____ BLR-CAP: _____

OPERATING DATA: NORMAL CONDS. YOR: 84 DEC-FEB: 00% MAR-MAY: 00% JUN-AUG: 00% SEP-NOV: 00%

PERMITTED SCHEDULE HRS/DAY: 21 DAYS/WK: 7 WKS/YR: 52

OPS REPTD: 08/21/84 (YYMMDD) HRS/DAY: 00 DAYS/WK: 0 WKS/YR: 00

PROCESS RATES: RAW MATERIAL: _____0 UNITS: B2 FUEL: _____0 UNITS: F1

PRODUCT: _____0 UNITS: B3 SPACE HEAT: __.__%

POINT COMMENTS: 2ND STACK HAS 3.25 FT. DIAM. OTHER DESC. ARE SAME.

COMPLIANCE: NEDS: __ QRC: __ YR/MO: ____ SCHEDULED: ____ (YYMM) UPDT: _____ (YYMMDD)

PERMIT: __ YOR: __ INSPECTED: _____ (YYMMDD) NEXT-INSP: _____ (YYMMDD)

INSP-CMTS: _____

EDS: __/_____

DER AIR PERMIT INVENTORY SYSTEM

SCC DATA

NAME: _____ DIST: __ CNTY: __ PLANT: 0029

&LOC: _____ CITY: ____ ZIP: _____ OWNR: __ TYPE: __ # OF PNTS: __

POINT #: 06 TYPE: __ NUMBER OF SCC'S: __ NUMBER OF POLLUTANTS EMITTED: __

CONSTRUCT PATS: _____/__ #AC __-_____ OPERATE PATS: _____/__ #AO __-_____

ISSUED: _____ EXPIRES: _____(YYMMDD) ISSUED: _____ EXPIRES: _____(YYMMDD)

SCC: 3-01-01-302 RATE/YR: _____0 UNITS: BB YOR: 84 MAX/HR: ___33.5___ SOURCE: P

FUEL CONTENT SULFUR: 0.01 % ASH: 0.0 % MBTU: ___1310 FUEL YOR: 84 CONFID: 2

CMTS: FUEL IS NATURAL GAS IN CATALYTIC COMBUSTOR

(64 spaces maximum)

SCC: _____ RATE/YR: _____ UNITS: __ YDR: __ MAX/HR: ____.__ SOURCE: __

FUEL CONTENT SULFUR: _.__ % ASH: __.__ % MBTU: _____ FUEL YOR: __ CONFID: __

CMTS: _____

(64 spaces maximum)

SCC: _____ RATE/YR: _____ UNITS: __ YDR: __ MAX/HR: ____.__ SOURCE: __

FUEL CONTENT SULFUR: _.__ % ASH: __.__ % MBTU: _____ FUEL YOR: __ CONFID: __

CMTS: _____

(64 spaces maximum)

SCC: _____ RATE/YR: _____ UNITS: __ YRD: __ MAX/HR: ____.__ SOURCE: __

FUEL CONTENT SULFUR: _.__ % ASH: __.__ % MBTU: _____ FUEL YOR: __ CONFID: __

CMTS: _____

(64 spaces maximum)

DER AIR PERMIT INVENTORY SYSTEM

POLLUTANT DATA

NAME: _____ DIST: __ CNTY: __ PLANT: 29

&LOC: _____ CITY: ____ ZIP: _____ OWNR: __ TYPE: __ # OF PNTS: __

POINT #: 02 TYPE: __ NUMBER OF SCC'S: __ NUMBER OF POLLUTANTS EMITTED: __

CONSTRUCT PATS: _____/__ #AC __-_____ OPERATE PATS: _____/__ #AO __-_____

ISSUED: _____ EXPIRES: _____(YYMMDD) ISSUED: _____ EXPIRES: _____(YYMMDD)

POLLUTANT:

1. NOX#: 42603 NORMAL: ____101 ESTIMATED/METH: _____014 MAXIMUM/POT: ____384
   PRI: 050 SEC: 039 EFF: 88.3% NXT-TST: _____(YYMMDD) FREQ: 1 REG: 2.6600_____
2. VE#: 11204 NORMAL: _____ ESTIMATED/METH: _____/__ MAXIMUM/POT: _____
   PRI: 050 SEC: 039 EFF: 88.3% NXT-TST: _____(YYMMDD) FREQ: 1 REG: 2.6600_____
3. __#: _____ NORMAL: _____ ESTIMATED/METH: _____/__ MAXIMUM/POT: _____
   PRI: __ SEC: __ EFF: __.__% NXT-TST: _____(YYMMDD) FREQ: __ REG: _____
4. __#: _____ NORMAL: _____ ESTIMATED/METH: _____/__ MAXIMUM/POT: _____
   PRI: __ SEC: __ EFF: __.__% NXT-TST: _____(YYMMDD) FREQ: __ REG: _____
5. __#: _____ NORMAL: _____ ESTIMATED/METH: _____/__ MAXIMUM/POT: _____
   PRI: __ SEC: __ EFF: __.__% NXT-TST: _____(YYMMDD) FREQ: __ REG: _____
6. __#: _____ NORMAL: _____ ESTIMATED/METH: _____/__ MAXIMUM/POT: _____
   PRI: __ SEC: __ EFF: __.__% NXT-TST: _____(YYMMDD) FREQ: __ REG: _____