SPECIFIC CONDITIONS:

ESSENTIAL POTENTIAL TO EMIT (PTE) PARAMETERS

1. Permitted Maximum Allowable Emission Rate: This permit does not change any emission standards or establish any new emissions standards for the kiln system (EU003) or the Clinker Handling System (EU004). During the temporary evaluation program, the kiln system and the Clinker Handling System shall comply with the requirements of all existing, valid Department permits. At no time will there be an increase in production or capacity rates during the test evaluation.
[Rules 62-4.030, 62-4.070(3), 62-210.300(1)(b), F.A.C.]

GBFS TEST EVALUATION PROGRAM

2. Relation to Other Permits: The conditions of this permit will supplement and comply with conditions of all existing, valid, Department permits.
[Rules 62-4.210, 62-4.030, and 62-210.300(1)(b), F.A.C.]

3. Granulated Blast Furnace Slag (GBFS): Phase One will be based on 2% slag (2% of total clinker production will be produced from dry slag) for a test run of 25 days. This will allow time to adjust and troubleshoot the feed system and transition the kiln operation, and train operators into slag feeding. At the end of the first phase, the kiln system will return to traditional raw materials and 100% clinkered cement and the slag clinker that was produced will be thoroughly tested before beginning Phase II of the testing. After 5-day evaluation of the process, quality and environmental data, Phase II will be started. Slag addition would slowly be increased to 5% over the course of 10 days to allow the kiln to be conditioned. At this rate, a more pronounced impact is expected on kiln efficiency, clinker production, and kiln stability. After 15 days at steady, 5% slag addition, Phase II will be complete and the kiln system returned to traditional raw materials and 100% clinker cement; and the slag clinker that was produced will be thoroughly tested. Process, quality, and continuous emissions monitoring data will be evaluated again at the end of Phase II for the incremental rates at which slag was fired up to 5%.
Depending upon the observed results in the course of the slag addition testing, the test protocol may be modified to verify results or obtain additional data at certain increments below 5%.
[Applicant Request Application received February 2, 2006]

4. Unconfined Particulate Emissions: During the evaluation program, unconfined particulate matter emissions from the storage and handling of GBFS shall be minimized by taking reasonable precautions as per Title V Permit No. 0010087-009-AV, Facility-Wide Condition No. 8.
[Rule 62-296.320(4)(c), F.A.C.]

5. Duration: The temporary GBFS test evaluation is permitted from July 3, 2006 to September 1, 2006. The temporary test evaluation is limited to no more than 60 operating days and shall end no later than September 16, 2006.
[Rule 62-4.070(3), F.A.C.]

6. GBFS Analyses: The chemical analysis from Japanese Slag was submitted as the GBFS to be used during this test evaluation. If FRI uses a different GBFS they must sample and analyze that GBFS. The permittee shall submit a report detailing the results of the analyses prior to conducting this test evaluation.
[Rule 62-4.070(3), F.A.C.]