

VIP Element Monitoring Monthly Monitoring Report

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Site Visit Date: 1/10/2011

Report Code: VIP Monthly Report_082310_TSM

Compliance Level: Acceptable

Type of Monitoring: Final Monthly spot-check

Photo Documentation: 10 vantage point photos

Name of Monitor: Tim Morgan

Monitored Activities Now Complete and No Longer Monitored:

- VIP Element 2004-2 (Butamer) – Monitoring Complete 01/2010 – Operational 1 Quarter 2010

Construction Activity(s) Being Monitored:

- VIP Element 2008-2 (Scrubber Process Equipment Train) – Monitoring Complete 01/2011
- VIP Element 2008-3 (Relocate Employee Parking lot)
- VIP Element 2008-4 (New Hydrogen Plant)

ESA Site Visits and Reporting

The purpose of Valero Improvement Project (VIP) Element monitoring is to assist the City of Benicia (City) in determining construction of VIP Element consistency with the Valero Refining Company's Land Use Permit (Application PLN 2002-00022 as amended by 07 PLN-00032). ESA, representing the City, is monitoring construction of VIP Elements, as they are approved by the City, through escorted periodic site visits where photo vantage point documentation is taken as an indication of element progress. ESA will also note Mitigation Monitoring and Reporting Program (MMRP) compliance as observed during site visits. This visit was the final monitoring visit of this phase of the project.

ESA (Tim Morgan) arrived on-site at 1330hr to conduct January 10, 2011 site visit with Valero (John Lazarik) and City representative Kitty Hammer. ESA, Kitty, and Valero toured construction areas of VIP Element 2008-2 and documented 8 of the 15 previously established photo vantage points to indicate monthly progress.

Alternative photo vantage points for Figure 6 was used to document construction of Element 2008-2 F-105 and F-106 furnaces as the furnace foundations are no longer visible from original photo vantage points. Figure 6c depicts the finished F-106 foundations from below. Access to vantage point for Figure 7A was not possible so this report does not show furnace components from below. All remaining figures capture original established photo vantage points to the extent possible. Note that Figure 6c thru 10 were shot on January 10, 2011 during the site visit and the remainder of the figures were shot on January 31, 2011. This was necessary because work being conducted on January 10th precluded access to viewing location 2.

VIP Elements 2008-3 and 2008-4, while approved under the use permit by the City, remain on hold by Valero, and photo documentation of vantage points 16 and 17 were not taken.



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Following site tour, Valero supplied ESA with photo vantage point documentation taken during the visit. ESA left the site around 1530.

Summary of Construction Activity and Site Conditions

2008-2 Element was approximately 100% complete on December 31, 2010. Ducting for connection of furnaces F-105 and F-106 is shown (See Figure 6a). Additional connecting ducting can be seen from the furnaces in Figure 6b.

SO₂ regeneration facilities and clarifier sump are now finished to the north of the FCCU/CKR Scrubber vessel (See Figures 10 and 11). FCCU/CKR Scrubber vessel is now finished (See Figures 8-13); superstructure is constructed and connecting ductwork is underway (See Figures 14-15). Belco pre-scrubber is finished (See Figures 13b).

Components of VIP Element 2008-2 are consistent in paint color scheme with equipment in the existing refinery block except for the stainless steel vessels which will not be painted as allowed by the Use Permit.

MMRP Compliance

No active dust control measures observed, although recent rains provided natural moisture to weigh down dust particles; and there was no evidence of excessive particulates in the air attributed to construction. However, house keeping efforts on site appear to minimize sources of dust. Sites appear to have appropriate best management practices (BMP) in place for erosion control during construction. No cultural resources observed. No pile driving observed.

Attachments

No attachments are associated with this January 2011 report.

VIP Element Monitoring Photo Vantage Point Documentation



Figure 6a: VIP Element 2008-2, CO furnace position 1A, from above, facing south.



Figure 6b: VIP Element 2008-2, CO furnace position 1A, from above, facing south.



Figure 6c: VIP Element 2008-2, CO furnace position 7A, from below, facing southwest.



Figure 8: VIP Element 2008-2, FGS position 1 facing west, northwest.



Figure 9: VIP Element 2008-2, FGS position 2 facing south.



Figure 10: VIP Element 2008-2, FGS position 3 facing south.



Figure 11: VIP Element 2008-2, Main stack position 1 facing north, northeast



Figure 12a: VIP Element 2008-2, Main stack position 2 facing northeast.



Figure 12b: VIP Element 2008-2, Main stack (upper portion) position 2 facing northeast.



Figure 13a: VIP Element 2008-2, Main stack position 3 facing east.



Figure 13b: VIP Element 2008-2, Main stack position 3 facing east.



Figure 14: VIP Element 2008-2, Main stack position 4 facing east, southeast.



Figure 15: VIP Element 2008-2, Main stack position 5 facing southeast.