
***MOJAVE DESERT
AIR QUALITY MANAGEMENT DISTRICT***

NSR/FOP Evaluation Document

Preliminary Determination/Decision - Statement of Basis
for
Modification to

FOP Number: 223900003

For:

CalPortland Company

Facility:

CalPortland – Oro Grande

Facility Address:

**19409 National Trails Highway
Oro Grande, CA 92368**

Document Date: January 19, 2018

Submittal date to EPA/CARB for review: January 19, 2018

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Permit Issue date: On or about March 19, 2018

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A. Introduction

1. Application and Setting

CalPortland Company, Oro Grande Cement Plant (CalPortland), Federal Operating Permit (FOP) number 22390003, located at 19409 National Trails Hwy, Oro Grande, CA 92368 is a modern Portland cement manufacturing facility. The basic process of the facility is the calcining of limestone, which is mixed with other raw materials. Calcining takes place in a pre-calciner and the rotary kiln. Ancillary processes are the cooling of the clinker, milling, blending, crushing, and packaging and/or dispatch in bulk truck and railcar.

The Mojave Desert Air Quality Management District (MDAQMD or District) received an application for the proposed “Cardinal Scale” Truck Loadout Project (August 15, 2017). The project consists of;

- Installation of an additional cement truck loadout point (“Cardinal Scale” Loadout) adjacent to existing cement truck loadout point, Loading Station 4 (District Permit B000161).

A copy of this application material can be viewed in Appendix A.

Additionally, the District received a request to change the frequency of the kiln and finish mill baghouse bag and suspension system inspection from quarterly to annually as fulfilling this requirement quarterly can be a burden on facility operations. For the Districts review and decision pertaining to this proposal, please see section C(1) below.

Pursuant to District Rule 1301 – *New Source Review Definitions*, CalPortland is an existing Major Facility for CO, NO_x, SO₂, PM_{10/2.5}, and VOC. The MDAQMD is classified as ‘attainment/unclassified’ by USEPA and CARB for CO, SO₂, and PM_{2.5}; therefore, pursuant to District Rule 1303 – *New Source Review Requirements*, the proposed equipment is subject to both BACT and Offset requirements for the Nonattainment Air Pollutant/Precursors of PM₁₀ (as only particulate matter emissions are emitted). The proposed project will utilize emission reduction credits to offset any increase in the facility’s Potential Emissions. Subsequently, a NSR analysis is required for this modification.

In addition, CalPortland is defined as a federal Major Facility pursuant to District Rule 1201 – *Federal Operating Permit Definitions*. The proposed modifications classifies as a Significant Modification to CalPortland’s Federal Operating Permit (FOP). Pursuant to District Rule 1205 – *Modifications of Federal Operating Permits*, section (B)(2) and District Rule 1302(D)(1)(d), this document serves as the preliminary decision and Statement of Legal and Factual Basis.

2. Description of Project

CalPortland proposes to install an additional cement truck load-out point (Cardinal Scale Loadout) adjacent to the existing load-out point Truck Loading Station 4. The proposed load-out point will be adjacent to the existing load-out point and will facilitate truck loadout by, 1) enabling trucks to load two (2) types of cement in this area

simultaneously, and 2) expediting truck load-out, as two trucks will be able to loadout, simultaneously. This proposed change will require that one of the four (4) silos currently feeding Truck Loading Station 4 (Silo #21) be diverted to feed the proposed Cardinal Scale Loadout. In addition, the vent tube from Cement Silo #21 to baghouse (611BF040) will be severed and, instead, a new baghouse (611BF041) will be installed on Cement Silo #21. From Cement Silo #21, cement products will be transferred via three (3) enclosed pneumatic air slides to two (2) load-out spouts (613LS301 & 613LS302), each of which is equipped with a dual axis spout positioner (613BK301 & 316BK302). The two (2) spouts are positioned to load both of a truck's trailer bins simultaneously, not to load two entirely separate trucks simultaneously. Both of the spout positioning systems will be equipped with baghouse filters (613BF301 & 613BF302). As the entire system from the silo to the spouts is enclosed and air tight, any dust emissions generated in these sources is routed to these baghouses.

B. Analysis

1. Determination of Emissions

Table 1 presents the project emission analysis (maximum potential to emit) for the project.

Due to the general nature of this facility's permit operations, all emissions emitted by a production process are vented to atmosphere through an air pollution control device (baghouse). The District conservatively calculates the potential to emit for a baghouse as follows;

$$\text{Emission Rate (gr/scf)} \times \text{Fan Size SCFM (cu ft/min)} \times \text{Hours of Operation per Year} \times 60/7000^* \\ = \text{Emissions (lbs/year)}$$

*Conversion Factors- minutes to hours and grains to pounds.

Therefore, the potential to emit for each controlled permit operation is established by the emissions venting to atmosphere through the baghouse, not the capacity nor production rate. It should be noted that the overall production of the facility is dictated by clinker production limits for the kiln.

Again, there are no emissions of NO_x, VOC, SO_x, or CO associated with the installation of this equipment. About 40% of all PM emitted is considered PM₁₀, and about 6% of all PM is considered PM_{2.5} emissions for purposes of this project¹. Maximum annual criteria emissions are calculated assuming maximum permitted activity. Total annual emissions of PM₁₀ will not exceed 7884 pounds or 3.94 tons per year. Detailed emissions calculations are provided in Appendix C.

District Rule 1304 – *Emissions Calculations*, provides the procedures and formulas to calculate emission changes.

¹ PM Size and Chemical Speciation Profile for Concrete Batching – PM3431, Wenli Yang, ARB.

Pursuant to District Rule 1304, the Emission Change for a new or modified Facility or Emissions Unit(s) shall be calculated, by subtracting Historic Actual Emission from Proposed Emissions (section (B)(1)(a)):

$$\text{Emissions Change} = (\text{Proposed Emissions}) - (\text{Historic Actual Emissions})$$

Table 1 - Project Emissions Analysis				<i>PM₁₀</i>	
Emissions Unit	Control Device	Control Device Permit #	Control Device ID	HAE (ppy)	Emissions from Proposed Unit (ppy)
Cement Silo 21	Cement Silo 21 Baghouse	C012923	611BF041	0	5631
South Loadout Spout	South Loadout Spout Baghouse	C012927	613BF301	0	1126
North Loadout Spout	North Loadout Spout Baghouse	C012928	613BF302	0	1126
Total Proposed Emissions				-	7884
Total HAE				0	
Emissions Increase				7884	
Offsets Needed				Yes	
Offset Ratio				1.0:1.0	
Amount of PM10 Emission Offsets Required				7884	

2. Determination of Nonattainment NSR Requirements

a. BACT Evaluation

[District Rule 1302(C)(2)(a)]

Best Available Control Technology (BACT) is required for each Nonattainment Air Pollutant or its Precursors with potential to emit (PTE);

- a) new or modified permit unit; 25 pounds per day or more
- b) new or modified facility; 25 tons per year or more.

[District Rule 1303(A)]

Because this facility has a PM₁₀ PTE greater than 25 tons per year or more, BACT is required for each new permit unit. BACT is defined as the most stringent emission limit or control technique which has been achieved in practice, for such Permit Unit class or category of source [District Rule 1301].

The proposed new cement loadout system must be equipped with BACT for only PM₁₀ as no other Nonattainment Air Pollutant or its Precursors are emitted.

PM₁₀ BACT

Dry Material (Cement) Handling at a Cement Manufacturing Facility

The applicant proposes that each dry material storage and transfer point or pneumatic conveyance system vent only to atmosphere through a fabric filter baghouse or bin vent with a PM₁₀ emission rate not to exceed 0.005 grains/dscf.

Baghouse Achievable Emission Limits/Reductions

Based on a review of the available BACT determinations for this class and category of source, the District determines BACT as, enclosure of all material storage and transfer points and vent to baghouse(s) with 0.005 gr/dscf as BACT.

b. Offsets Evaluation

[District Rule 1302(C)(3)]

Offsets are required for any new or modified Facility which has the Potential to Emit a Regulated Air Pollutant in an amount greater than or equal to the thresholds for the Nonattainment Air Pollutants and their Precursors specified in District Rule 1303 (B)(1). As noted above, PM₁₀ Offsets are required for this project as the facility PTE PM₁₀ emissions exceeds the District Offset threshold, which is 15 tons per year. The applicable PM₁₀ offset ratio specified by District Rule 1305(C) for the project is 1.0 to 1.0.

CalPortland proposes the use of PM₁₀ emission reduction credits from ERC Certificate No. 0104 to offset the project PM₁₀ Proposed Emissions. In accordance with District Rule 1305, the District has identified that there are no RACT reductions associated with these credits, therefore the full ERC amounts described in Table 2 below are available for use for this project. The remaining balance of credits will be issued in accordance with District Rule 1302 following completion of the project.

Table 2 – Emission Reduction Credits, Pounds Per Year								
	Cert #	Owner	Certificate Date	PM10	NO _x	VOC	CO	SO _x
Available	0104	CalPortland	1/20/2016	22074	1484	12	5849	0
Proposed for Offsets	0104	CalPortland	1/20/2016	-7884	0	0	0	0
Balance	TBD	CalPortland	TBD	14190	1484	12	5489	0

c. Determination of Additional Federal Requirements

[District Rule 1302(C)(4)]

Pursuant to the requirements in District Rule 1302 B(1)(a)(ii), an analysis of Alternative Siting is not required as the proposed equipment is not a Major Modification as defined in District Rule 1301 (DDD).

Pursuant to the requirements in District Rule 1302 B(1)(a)(iii), an analysis of any anticipated impacts on visibility is not required as the proposed equipment does not qualify as an application for a new Major Facility, nor is it a Major Modification for NSR purposes.

3. Determination of Requirements for Toxic Air Contaminants

[District Rule 1302(C)(5)]

a. District Rule 1320:

Pursuant to District Rule 1320 – *New Source Review for Toxic Air Contaminants*, CalPortland is subject to both State and Federal Toxic New Source Review, as CalPortland is a New or Modified Facility (or Emissions Units) which has the potential to emit a Toxic Air Contaminant, and CalPortland also has the potential to emit 10 tons per year of any single Hazardous Air Pollutant (Federal T-NSR). Pursuant to the requirements of District Rule 1320, an applicability analysis of state and federal air toxic regulations was conducted for the proposed equipment (State T-NSR and Federal T-NSR, respectively). The State T-NSR and Federal T-NSR analyses are described below:

1. State T-NSR:

Section (E)(1)(b) of District Rule 1320 requires that if any ATCM applies to the proposed equipment, the requirements of that ATCM shall be added to the District permit. An ATCM does not apply to the proposed Emission Units (EU).

Pursuant to District Rule 1320, section (E)(2), State T-NSR also requires an EU Prioritization Score (PS). A Prioritization Score (PS) considers potency, toxicity and amount of toxics released into the air, as well as the distance to workers, residents and sensitive receptors (such as hospitals, schools, and day care centers). Section (E)(2) requires PS to be calculated utilizing the most recently approved CAPCOA Facility Prioritization Guidelines, the most recently approved OEHHA Unit Risk Factor for cancer potency factors, and the most recently approved OEHHA Reference Exposure Levels for non-cancer acute factors, and non-cancer chronic factors. The District prepared the EU PS using the July 2016 CAPCOA Facility Prioritization Guidelines in accordance with the Dispersion Adjustment Procedures and the recent CalPortland 2016 emission inventory data for Cement Silos 21-24 and Truck Loadout. The EU PS for Cement Silo 21 and Cardinal Scale Loadout, is as follows:

Proposed New/Modified Emission Units	Cancer Priority	Acute Noncancer Priority	Chronic Noncancer Priority
<i>Cement Storage Silo 21</i>	7.64	0.020	0.18
<i>Cardinal Scale Truck Loadout</i>	2.47	0.0066	0.058

*Distance from application, verified using google earth. From proposed truck loadout to nearest receptor (residence) is 187 meters.

As shown in the table above, the PS for each of the proposed new units are greater than 1 and less than 10; therefore, each unit is categorized as “Intermediate Priority.” Pursuant to District Rule 1320, section (E)(2)(b), no further State T-NSR action is required.

2. Federal T-NSR:

Pursuant to section (F)(1) of District Rule 1320, the Modified Facility/EU were analyzed to determine if any current, enforceable Maximum Achievable Control Technology (MACT) standards apply. The proposed equipment is subject to the Portland Cement MACT (40 CFR 63, Subpart LLL) and will comply with all applicable requirements for these units by permit condition. There are no other applicable MACT standards. Federal T-NSR is satisfied.

b. District Rule 1520 – Control of Toxic Air Contaminants from Existing Sources applies to CalPortland, as they are an existing facility that has a facility PTE greater than ten (10) tons per year for VOC, PM, and NO_x, as well as a PTE to emit a TAC (Section (B)(1)(a) and (c)). CalPortland’s 2009 Comprehensive Emission Inventory Report (CEIR) was utilized to fulfill the requirements of section (D)(1)(b)(i) of District Rule 1520 as the 2009 CEIR emissions data is representative of current operations and was previously analyzed in accordance with Section (E) of District Rule 1320, concluding with an approved Health Risk Assessment (HRA) result. The modification of the Cement Silo 21 and addition of Cardinal Scale Truck Loadout will not cause an increase in Significant Health Risk as there is no substantial increase in toxic emissions.

The numerical results of the 2009 HRA are listed below. The results indicate that CalPortland facility is not a Significant Health Risk for maximum lifetime cancer risk, however exceed the Significant Health Risk thresholds for chronic and acute total hazard index. Based on this exceedance CalPortland conducts quadrennial public notification in accordance with Section (F) of District Rule 1520 and submits annual CEIR updates.

	Cancer Risk, per million (1)	Chronic THI (2)	Acute THI (3)
Facility HRA Result	7	1.52	1.43

1. This column reports the maximum lifetime excess cancer risk estimate at an occupational or residential receptor (whichever is greater) approved by the District. The maximum estimated risk generally is possible at only one location. All other locations show lower risks. This estimate assumes that a person resides at the location of maximum impact 24 hours per day, 365 days per year, for 70 years of exposure or a person works at the location of maximum impact 8 hours per day, 245 days per year, for 40 years of exposure. Actual cancer risk will likely be less.
2. Chronic total health hazard index (THI) is the sum of the ratios of the average annual exposure level of each compound to the compound's reference exposure level (REL). Actual chronic THI will likely be less.
3. Acute THI is the sum of the ratios of the maximum one-hour exposure level of each compound to the compound's REL. Actual acute THI will likely be less

4. Determination of Requirements for Prevention of Significant Deterioration
[District Rule 1302(C)(6)]

a. PSD Analysis

The federal PSD regulations are provided in 40 CFR 52.21. Per 40 CFR 52.21(a)(2), these regulations apply to any new major stationary source or any existing major stationary source where a project results in a significant net emissions increase located in an unclassifiable or attainment area. The Facility is an existing major PSD stationary source. The PSD regulations only apply to attainment or unclassifiable pollutants which, for this Facility, are PM, PM_{2.5},

NO₂, SO₂, CO, and Pb. As such, CalPortland must evaluate if the emission increases associated with the Cardinal Scale project are significant. This project is expected to emit PM and PM_{2.5}, but no other PSD pollutants.

For PSD applicability purposes, the Cardinal Scale Loadout project is considered a stand-alone project and not affiliated with (a) the Modernization project which was permitted by MDAQMD under a separate permitting action in 1999 or (b) the new truck load out system project which was included in a November 2017 ATC application submitted to MDAQMD. It should be noted that even if the Cardinal Scale Loadout project and the new truck load out system project were considered as a single project due to the short period of time between the permit application submittals, the total PTE of PM and PM_{2.5} for both projects would not exceed the 25 tpy PM and 10 tpy PM_{2.5} significant emission rates (SER).

The PTE of the Cardinal Scale project for PM is 9.86 tons per year and for PM_{2.5} is 0.59 tons per year. Per 40 CFR 52.21(b)(23)(i), the SER is 25 tpy for PM and 10 tpy for PM_{2.5}. Because the PM/PM_{2.5} PTE for the Cardinal Scale Loadout Project is below the PM/PM_{2.5} SER, this project is not considered significant. As such, the requirements of 40 CFR 52.21 do not apply to the Cardinal Scale project.

b. NAAQS Impact Analysis

District Rule 1302, section (D)(5)(b)(iv) requires that any new or Modified Facility located in an area classified by USEPA as attainment or unclassifiable shall determine if the Facility will cause or contribute to a violation of the National Ambient Air Quality Standards (NAAQS). The proposed modification, discussed herein, through implementation of BACT, will not contribute to a violation of the NAAQS.

5. Rules and Regulations Applicable to the Proposed Project

District Rules

Rule 201/203 – *Permits to Construct/Permit to Operate*. Any equipment which may cause the issuance of air contaminants must obtain authorization for such construction from the Air Pollution Control Officer. CalPortland is in compliance with this rule as they appropriately applied for a District permit for all new equipment and maintains District permits for all residing equipment.

Rule 204 – *Permit Conditions*. To assure compliance with all applicable regulations, the Air Pollution Control Officer (Executive Director) may impose written conditions on any permit. The District has imposed permit conditions to ensure CalPortland complies with all applicable regulations.

Rule 206 – *Posting of Permit to Operate*. Equipment shall not operate unless the entire permit is affixed upon the equipment or kept at a location for which it is issued and will be made available to the District upon request.

Rule 207 – *Altering or Falsifying of Permit*. A person shall not willfully deface, alter, forge, or falsify any issued permit.

Rule 209 – *Transfer and Voiding of Permits*. CalPortland shall not transfer, whether by operation of law or otherwise, either from one location to another, from one piece of equipment to another, or from one person to another. When equipment which has been granted a permit is altered, changes location, or no longer will be operated, the permit shall become void.

Rule 210 – *Applications*. CalPortland provided all the required information to correctly address the proposed equipment pursuant to this rule, although there were instances in which additional information were required, in which the thirty (30) day clock was restarted.

Rule 212 – *Standards for Approving Permits*. This rule establishes baseline criteria for approving permits by the District for certain projects. In accordance with these criteria, the proposed modifications and application does not cause issuance of air contaminants in violation of Sections 41700 or 41701 of the State Health and Safety code.

Rule 221 – *Federal Operating Permit Requirement*. CalPortland is in compliance with this rule, as they currently hold and maintain a Federal Operating Permit.

Rule 301 – *Permit Fees*. The proposed equipment will increase CalPortland’s annual permit fees by the applicable amounts described in section (E) of this rule.

Rule 401 – *Visible Emissions*. This rule limits visible emissions opacity to less than 20 percent (or Ringlemann No. 1). In normal operating mode, visible emissions are not expected to exceed 20 percent opacity.

Rule 402 – *Nuisance*. This rule prohibits facility emissions that cause a public nuisance. The proposed modifications and associated equipment is required by permit condition to employ good engineering and operational principles in order to minimize emissions and the possibility of a nuisance.

Rule 408 – *Circumvention*. This rule prohibits hidden or secondary rule violations. The proposed modifications as described is not expected to violate Rule 408.

Rule 430 – *Breakdown Provisions*. Any Breakdown which results in a violation to any rule or regulation as defined by Rule 430 shall be properly addressed pursuant to this rule.

Rule 900 – *Standards of Performance for New Stationary Sources (NSPS)*. Rule 900 adopts all applicable provisions regarding standards of performance for new stationary sources as set forth in 40 CFR 60. 40 CFR 60 Subpart F – Standards of Performance for Portland Cement Plants applies to this facility. This rule limits the allowable opacity from kilns and clinker coolers. It does not apply to the proposed Cardinal Scale Loadout.

Regulation X – *National Emission Standards for Hazardous Air Pollutants*. Pursuant to Regulation X, CalPortland is required to comply with all applicable ATCMs and under state law, a federal National Emission Standards for Hazardous Air Pollutants (NESHAP) becomes the State ATCM, unless the Air Resources Board (ARB) has already adopted an ATCM for the source category and associated hazardous air pollutant(s). In the case of the proposed new and modified equipment, the Portland Cement MACT is the applicable MACT and ATCM (as the state has not adopted an equivalent rule).

Regulation XII – *Title V Permits*

This regulation contains requirements for sources which must have a FOP. CalPortland currently has a FOP and is expected to comply with all applicable rules and regulations.

Rule 1201 – *Federal Operating Permit Definitions*. CalPortland is defined as a federal Major Facility pursuant to this rule.

Rule 1203 – *Federal Operating Permits*. The new baghouse units are subject to New Source Review; is being carried out in accordance with District Rule 1302 procedures which allows for Significant Modifications to be processed concurrent with NSR actions. This procedure conforms with all applicable provisions of District Regulation XII. Further, this permit modification will be noticed similarly to District Rule 1207 requirements and in accordance with District Rule 1302.

Rule 1205 – *Modifications of Federal Operating Permits*. The proposed equipment classifies as a Significant Permit Modification to CalPortland’s Federal Operating Permit (FOP), and subsequently, this permit modification is issued in accordance with the provisions of District Rule 1302 pursuant to Rule 1203.

Rule 1207 – *Notice and Comment*. This NSR permitting action is being noticed concurrent with the Significant Modification of CalPortland Federal Operating Permit. Notably, this affords the public the right to petition USEPA to reconsider the decision to not object to the permit action.

Rule 1208 – *Certification*. CalPortland included a Certification of Responsible Official as required with the submitted application for the proposed equipment.

Rule 1211 – *Greenhouse Gas Provisions of Federal Operating Permits*. CalPortland is a Major GHG Facility pursuant to Rule 1211. CalPortland’s FOP includes all the requirements of this rule.

Regulation XIII – *New Source Review*

Rule 1302 – *Procedure*. This rule applies to all new or Modified Facilities and requires certain requirements to be fulfilled when submitting an application. All applicable requirements of this rule are discussed in this NSR document as part of the Analysis procedure. Certification of compliance with the Federal Clean Air Act, applicable implementation plans, and all applicable District rules and regulations have been addressed. The Authority to Construct (ATC) application package for the proposed equipment includes sufficient documentation to comply

with Rule 1302(D)(5)(b)(ii). Permit conditions for the proposed project will require compliance with Rule 1302(D)(5)(b)(iii).

Rule 1303 – Requirements. This rule requires BACT and offsets for selected facility modifications. Equipment installed shall meet BACT (see Section B(2)(a)). Offsets are necessary to be obtained as the project PTE is demonstrated to be a net increase in emissions. CalPortland will comply with the BACT requirements of District Rule 1303 by accepting a limit of 0.005 grains per dry standard cubic foot for the proposed dust collectors emissions limits. The proposed offset package was analyzed in accordance with Rule 1302 and 1305 and it is determined that the full value of the ERC certificate is valid for use for offsetting this project.

Rule 1304 – Emissions Calculations. The Proposed Emissions from the proposed modifications were calculated pursuant to section (B)(1)(a) of this rule.

Rule 1310 – Federal Major Facilities and Modifications. The Proposed Emissions from the proposed new units *are not* determined to be a Federal Major Modification as calculated in accordance with Rule 1310(E)(1)(a) as the Projected Actual Emissions, calculated pursuant to section Rule 1310 (E)(3)(c) do not exceed the Federal Major Modification Thresholds. Said calculation methodologies are similar to those required by District Rule 1304(B)(1)(a) considering all things will be equal with regards to startup, shutdown, and malfunction.

Rule 1320 – New Source Review for Toxic Air Contaminants. Pursuant to the requirements of District Rule 1302, an applicability analysis of state and federal air toxic regulations was conducted for the proposed modifications (State T-NSR and Federal T-NSR, respectively) and is discussed in further detail in section (B)(3)(a)(1) of this document.

Rule 1520 – Control of Toxic Air Contaminants from Existing Sources. This permit action is subject to Rule 1520, as CalPortland is an existing Major Facility and has a facility PTE greater than ten (10) tons per year for CO, NO_x, SO₂, PM_{10/2.5}, and VOC, as well as has a PTE to emit a TAC (Section (B)(1)(a) and (c)). A Toxic ‘Hot Spots’ Program Analysis was previously conducted by the District pursuant to section (E) of District Rule 1520, concluding with production of a HRA. Results of the HRA are discussed in detail in section (B)(3)(b), above.

Regulation XVII – Prevention of Significant Deterioration

The purpose of this regulation is to set forth requirements for all new Major PSD Facilities and Major PSD Modifications which emit or have the potential to emit a PSD Air Pollutant pursuant to the requirements of 40 CFR 52.21. The proposed modification does not constitute a new Major PSD Facility or a Major PSD Modification; therefore, PSD does apply to the proposed project.

State Regulations

There are no project specific applicable state regulations.

Federal Regulations

40 CFR 63, Subpart LLL - *National Emission Standards for Hazardous Air Pollutants From the Portland Cement Manufacturing Industry (Portland Cement MACT)*. The requirements of this regulation applicable to the proposed equipment are visible emissions (opacity) limits with an initial EPA Method 9 Test and monthly visible emissions observations each subject location. The types of modifications proposed to the existing equipment are not expected to adversely affect compliance as this is a closed system and emission control equipment will continue to be used. Compliance with this regulation is expected and implemented by District permit condition and can be found in CalPortland FOP, Appendix A.

40 CFR 60, Subpart F – *NSPS for Portland Cement Kilns*. This rule limits the allowable opacity from kilns and clinker coolers. It does not apply to the proposed Cardinal Scale Loadout.

40 CFR 64, *Compliance Assurance Monitoring*. The Compliance Assurance Monitoring (CAM) rule (40 CFR 64) applies to each Pollutant Specific Emissions Unit (PSEU) when it is located at a Major Facility that is required to obtain Title V, Part 70 or 71 permit and it meets all of the following criteria. “PSEU” means an emissions unit considered separately with respect to each regulated air pollutant.

The PSEU must:

- a. Be subject to an emission limitation or standard [40 CFR 64; AND,
- b. Use a control device to achieve compliance [40 CFR 64.2(a)(2)]; AND,
- c. Have the **potential pre-control** emissions that exceed or are equivalent to the major source threshold. [40 CFR 64.2(a)(3)]

A CAM analysis was conducted for the modified silo and new loadout. Maximum potential pre-control emissions do not exceed the major source threshold therefore CAM is not applicable.

The CalPortland facility currently has two PSEU applicable to CAM, Primary and Secondary Crushing. A CAM Plan was approved for these units as part of the 2014 renewal of CalPortland Federal Operating Permit and in accordance with 40 CFR Part 64 is subject to review during the next renewal of CalPortland FOP. There are currently no proposed changes to CAM for these units.

6. NSR Preliminary Decision - Conclusion

The District has reviewed the proposed new and modified emission unit applications for CalPortland and conducted a succinct written analysis as required by District Rule 1302, section (D)(1)(b) and District Rule 1203, section (B)(1)(a). The District has determined that the proposed equipment and application are in compliance with all applicable District, state, and federal rules and regulations as proposed and when operated in terms of the permit conditions below.

7. Permit Conditions

The following permit conditions will be placed on the Authorities to Construct (ATC) for the project and in the FOP. All modifications to existing equipment descriptions and permit conditions will be in iterated form. The Statement of Basis follows each permit condition.

EXISTING EQUIPMENT

BULK CEMENT TRUCK LOADOUT NO. 4 – MDAQMD PERMIT # B000161; consisting of:

A drive-through cement bulk truck loadout served by silos ~~21~~ through 24, with ancillary equipment:

Equipment No.	Equipment	Capacity	Capac. Units	HP
	Loadout <u>Cone Motor and Spout</u>			1
611BFFN202	Fan for 611BF202	1,650	ACFM	5
<u>613DRY173</u>	<u>Air Dryer Station 4</u>			<u>1</u>
<u>613ASBL210</u>	<u>Air Slide Blower under Silo 22</u>			<u>7.5</u>
<u>613ASBL211</u>	<u>Air Slide Blower under Silo 22</u>			<u>7.5</u>
<u>613CP218</u>	<u>Air Compressor under Silo 22</u>			<u>15</u>

Includes all ancillary equipment associated with this process group, including conveying, storage and material handling. *Note that no new equipment has been added here and the only real change is to remove Silo 21 as all other equipment is existing and changes are for added clarity to the equipment description.*

CONDITIONS:

1. This equipment must not be operated unless it is vented to operating air pollution control equipment covered by valid District permits C001774 (611BF202). [Rule 204; Rule 1303(A)] *The existing bulk truck loadout vents solely through baghouse. There are no operational changes occurring with this modification except that Silo 21 will now vent to new baghouse permit C012927 and C012928 -with equal or better emission control. This equipment is expected to continue to operate in accordance with all applicable requirements including Rule 404 and BACT emission limits.*
2. The owner/operator (o/o) shall have a continuing program of maintenance/inspections in accord with manufacturer’s recommendations and specifications which ensures compliance with District Rules. [Rule 204] *Through implementation of preventative maintenance program this equipment is expected to continuously operate in compliance with applicable rules and regulations including Regulation IV and XIII.*
3. The o/o shall maintain a log of all inspections, repairs and maintenance on this equipment and submit it to the District upon request. The log shall be kept for a minimum period of five years. [40 CFR Part 63 subpart LLL; Rule 1303(A); Rule 1203(D)(1)(d)(ii)] *The retention of records enables the facility to demonstrate compliance with all applicable rules and regulations.*

(BULK CEMENT TRUCK LOADOUT) BAGHOUSE 611BF202 – MDAQMD PERMIT # C001774; consisting of:

CONDITIONS:

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants. [Rule 204]
Through implementation of preventative maintenance program this equipment is expected to continuously operate in compliance with applicable rules and regulations including Regulation IV and XIII.

2. This baghouse shall be operated concurrently with the cement truck loadout system under B000161. [Rule 204; Rule 1303(A)]
Use of this baghouse at all times ensures this equipment is operating in compliance with all applicable district rules namely that this equipment meets emission limits determined at time of permitting to meet Rule 1303 (BACT).

3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:

- a. Weekly reading of baghouse pressure drop, date and value;
 - b. Monthly baghouse stack observation date and result (using USEPA Method 22, and USEPA Method 9 if necessary); [40 CFR 63.1350(f)]
 - c. Quarterly bag and bag suspension system inspection date and results;
 - d. Date of bag replacements; and,
 - e. Date and nature of any system repairs. [40 CFR 63.1355(g)]
- [40 CFR Part 63 subpart LLL; Rule 1303(A); Rule 1203(D)(1)(d)(ii)]

Through the implementation of a preventative maintenance program, this equipment is expected to continuously operate in compliance with applicable rules and regulations including Rule 401 and Regulation. The retention of records enables the facility to demonstrate compliance with all applicable permit terms, rules, and regulations.

4. This baghouse shall be operated in compliance with applicable requirements of 40 CFR 60 Subpart F – Standards of Performance for Portland Cement Plants and 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants From the Portland Cement Manufacturing Industry. [40 CFR Part 60 subpart F; 40 CFR Part 63 subpart LLL; Rule 1303(A)]

This condition identifies compliance with the applicable federal regulation is required.

5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity. [40 CFR 63.1345; Rule 401]

This condition ensures equipment meets opacity requirements, validated as necessary by EPA method 9.

6. This baghouse shall discharge no more than 0.14 pounds per hour of PM10 at a maximum concentration of 0.01 grains/dscf at the operating conditions given in the above description. This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District. [Rule 404]

Specifies BACT emission limits.

7. This unit shall be equipped with a device to measure the pressure differential across the bags (manometer). [District Rules 401; 404; and 1303]

The requirement to install, maintain, and operate a pressure differential recording device aides the o/o in establishing and maintaining optimal operating pressures which ensures baghouse is operating efficiently to help achieve Rule 404 and 1303 emission limits as well as avoidance of bag leaks which could lead to visible emissions exceedances (Rule 401).

8. The o/o shall maintain on-site a minimum inventory of replacement bags that assures compliance with these conditions. [District Rules 401; 1303]

This condition helps to ensure that there is minimal upset in process runs and visible emissions due to malfunction of emission control equipment.

SILO-CEMENT AND CEMENT SUPPLEMENT STORAGE (235) – MDAQMD PERMIT # T001753; consisting of:

Equipment No.	Equipment	Capacity	Capac. Units	HP
611SL221	Cement Silo 21	2,600/412	Tons/Gallons	
611SL222	Cement Silo 22	2,800/446	Tons/Gallons	
611SL223	Cement Silo 23	3,000/480	Tons/Gallons	
611SL224	Cement and Fly Ash Silo 24	2,800/446	Tons/Gallons	
611BFFN040	Fan for 611BF040	15,000	ACFM	

Includes all ancillary equipment associated with this process group, including conveying, storage and material handling. Gallons are in thousands.

CONDITIONS:

1. Silo 21 must not be operated unless vented to operating air pollution control equipment covered by valid District permit C012923(611BF041) and Silos 22, 23, and 24 must not be operated unless vented to operating air pollution control equipment covered by valid District permit C007470 (611BF040).

~~Process equipment shall not be operated unless it is vented to its associated control equipment.~~

[Rule 204; Rule 1303(A)]

Use of this baghouse at all times ensures this equipment is operating in compliance with all applicable district rules namely that this equipment meets emission limits determined at time of permitting to meet Rule 1303 (BACT).

BAGHOUSE 611BF040 – MDAQMD PERMIT # C007470; consisting of:

a pulse jet baghouse with polyester felt bags whose total filter area is 2000 square feet, equipped with a 30 hp fan generating 10,000 cfm of flow at 135 degrees Fahrenheit (for an air to cloth ratio of 5.0:1). This unit serves the silos ~~24~~ through 24 portion of the cement system (T001753).

CONDITIONS:

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants. [Rule 204]
Through implementation of preventative maintenance program this equipment is expected to continuously operate in compliance with applicable rules and regulations including Regulation IV and XIII.

2. This baghouse shall be operated concurrently with the cement storage system under T001753. [Rule 204; Rule 1303(A)]
Use of this baghouse at all times ensures this equipment is operating in compliance with all applicable district rules namely that this equipment meets emission limits determined at time of permitting to meet Rule 1303 (BACT).

3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:

- a. Weekly reading of baghouse pressure drop, date and value;
- b. Monthly baghouse stack observation date and result (using USEPA Method 22, and USEPA Method 9 if necessary); [40 CFR 63.1350(f)]
- c. Quarterly bag and bag suspension system inspection date and results;
- d. Date of bag replacements; and,
- e. Date and nature of any system repairs. [40 CFR 63.1355(g)]

[40 CFR Part 63 subpart LLL; Rule 1303(A); Rule 1203(D)(1)(d)(ii)]
Through the implementation of a preventative maintenance program, this equipment is expected to continuously operate in compliance with applicable rules and regulations including Rule 401 and Regulation. The retention of records enables the facility to demonstrate compliance with all applicable permit terms, rules, and regulations.

4. This baghouse shall be operated in compliance with applicable requirements of 40 CFR 60 Subpart F – Standards of Performance for Portland Cement Plants and 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants From the Portland Cement Manufacturing Industry. [40 CFR Part 60 subpart F; 40 CFR Part 63 subpart LLL; Rule 1303(A)]

This condition identifies compliance with the applicable federal regulation is required.

5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity. [40 CFR 63.1345; Rule 401]

This condition ensures equipment meets opacity requirements, validated as necessary by EPA method 9.

6. This baghouse shall discharge no more 0.86 pounds per hour at a maximum concentration of 0.01 grains/dscf at the operating conditions given in the above description (BACT). This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District. [Rule 1303(A); Rule 404]
Specifies BACT emission limits.

7. This unit shall be equipped with a device to measure the pressure differential across the bags (manometer). [Rule 1303(A)]

The requirement to install, maintain, and operate a pressure differential recording device aides the o/o in establishing and maintaining optimal operating pressures which ensures baghouse is operating efficiently to help achieve Rule 404 and 1303 emission limits as well as avoidance of bag leaks which could lead to visible emissions exceedances (Rule 401).

8. The o/o shall maintain on-site a minimum inventory of replacement bags that assures compliance with these conditions. [Rule 1303(A)]

This condition helps to ensure that there is minimal upset in process runs and visible emissions due to malfunction of emission control equipment.

PROPOSED NEW EQUIPMENT:

BAGHOUSE 611BF041 – MDAQMD PERMIT # C012923; consisting of:

a Mikropul Model 196(6)-12-20-TR-B pulse jet type baghouse with 196 polyester felt bags (with MikroTex exterior finish- or equivalent), each bag measuring 6” x 12’, and whose total filter area is 3,763 square feet, equipped with a TBD hp fan generating 15,000 cfm of flow, for an air to cloth ratio of 3.98:1. This unit serves silo 21 portion of the cement system (T001753).

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants. [Rule 204]

Through implementation of preventative maintenance program this equipment is expected to continuously operate in compliance with applicable rules and regulations including Regulations IV and XIII.

2. This baghouse shall be operated concurrently with Silo 21 of the cement storage system under T001753. [Rule 204; Rule 1303(A)]

Use of this baghouse at all times ensures this equipment is operating in compliance with all applicable district rules namely that this equipment meets emission limits determined at time of permitting to meet Rule 1303 (BACT).

3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:

- a. Weekly reading of baghouse pressure drop, date and value;
- b. Monthly baghouse stack observation date and result (using USEPA Method 22, and USEPA Method 9 if necessary); [40 CFR 63.1350(f)]
- c. Annual bag and bag suspension system inspection date and results;
- d. Date of bag replacements; and,
- e. Date and nature of any system repairs. [40 CFR 63.1355(g)]

[40 CFR Part 63 subpart LLL; Rule 1303(A); Rule 1203(D)(1)(d)(ii)]

Through the implementation of a preventative maintenance program, this equipment is expected to continuously operate in compliance with applicable rules and regulations including Rule 401

and Regulation. The retention of records enables the facility to demonstrate compliance with all applicable permit terms, rules, and regulations

4. This baghouse shall be operated in compliance with applicable requirements of 40 CFR 60 Subpart F – Standards of Performance for Portland Cement Plants and 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants From the Portland Cement Manufacturing Industry. [40 CFR Part 60 subpart F; 40 CFR Part 63 subpart LLL; Rule 1303(A)]

This condition identifies compliance with the applicable federal regulation is required.

5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity. [40 CFR 63.1345; Rule 401]

This condition ensures equipment meets opacity requirements, validated as necessary by EPA method 9.

6. This baghouse shall discharge no more than 0.6 pounds per hour of PM10 at a maximum concentration of 0.005 grains/dscf at the operating conditions given in the above description (BACT). This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District. [Rule 1303(A); Rule 404]

Specifies BACT emission limits. Baghouse is guaranteed to 0.005 gr/dscf by reputable manufacturer and as such initial compliance testing is not required, but may be required later at the discretion of the District.

7. This unit shall be equipped with a device to measure the pressure differential across the bags (manometer). [Rule 1303(A)]

The requirement to install, maintain, and operate a pressure differential recording device aides the o/o in establishing and maintaining optimal operating pressures which ensures baghouse is operating efficiently to help achieve Rule 404 and 1303 emission limits as well as avoidance of bag leaks which could lead to visible emissions exceedances (Rule 401).

8. The o/o shall maintain on-site a minimum inventory of replacement bags that assures compliance with these conditions. [Rule 1303(A)]

This condition helps to ensure that there is minimal upset in process runs and visible emissions due to malfunction of emission control equipment.

BULK CEMENT CARDINAL SCALE TRUCK LOADOUT – MDAQMD PERMIT # B012929; consisting of:

A drive-through cement bulk truck loadout served by silo 21, with ancillary equipment:

Equipment No.	Equipment	Capacity	Capac. Units	HP
	South Loadout Spout (613LS301)			1
	North Loadout Spout (613LS302)			1
	South Loadout Baghouse (613BF301)			15

(3) Pneumatic Air Slide, 613AS30
Dual Axis Spout Positioner 613BK301
Dual Axis Spout Positioner 613BK302

CONDITIONS:

1. This equipment must not be operated unless it is vented to operating air pollution control equipment covered by valid District permits C012927 (613BF301) and C012928 (613BF302). [Rule 204; Rule 1303(A)]

Ensures that emissions generated by this material handling equipment will be sufficiently controlled and operated in accordance with all applicable requirements including Rule 404 and BACT emission limits.

2. The owner/operator (o/o) shall have a continuing program of maintenance/inspections in accord with manufacturer's recommendations and specifications which ensures compliance with District Rules. [Rule 204]

Through implementation of preventative maintenance program this equipment is expected to continuously operate in compliance with applicable rules and regulations including Regulation IV and XIII.

3. The o/o shall maintain a log of all inspections, repairs and maintenance on this equipment and submit it to the District upon request. The log shall be kept for a minimum period of five years. [40 CFR Part 63 subpart LLL; Rule 1303(A); Rule 1203(D)(1)(d)(ii)]

The retention of records enables the facility to demonstrate compliance with all applicable rules and regulations.

4. Prior to commencing operation, the owner/operator shall surrender to the District 7,884 pounds per year of valid PM10 emission reduction credits associated with ERC Certificate #0104.

[District Rule 1302(C)(3)(vi); 1303(B)]

BAGHOUSE 613BF301 – MDAQMD PERMIT # C012927; consisting of:

a DCL CFM-770 pulse jet type dust collector with 14 spun bonded polyester cartridges (or equivalent), each cartridge measuring 8" x 26", and whose total filter area is 770 square feet, equipped with a 15 hp fan generating 3000 cfm of flow, for an air to cloth ratio of 3.8:1. This unit serves the Cardinal Scale Loadout Spout (South) under permit B012929.

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants. [Rule 204]

Through implementation of preventative maintenance program this equipment is expected to continuously operate in compliance with applicable rules and regulations including Regulations IV and XIII.

2. This baghouse shall be operated concurrently with Cardinal Scale Loadout spout (South) under permit B012929. [Rule 204; Rule 1303(A)]

Use of this baghouse at all times ensures this equipment is operating in compliance with all applicable district rules namely that this equipment meets emission limits determined at time of permitting to meet Rule 1303 (BACT).

3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:

- a. Weekly reading of baghouse pressure drop, date and value;
- b. Monthly baghouse stack observation date and result (using USEPA Method 22, and USEPA Method 9 if necessary); [40 CFR 63.1350(f)]
- c. Annual bag and bag suspension system inspection date and results;
- d. Date of bag replacements; and,
- e. Date and nature of any system repairs. [40 CFR 63.1355(g)]

[40 CFR Part 63 subpart LLL; Rule 1303(A); Rule 1203(D)(1)(d)(ii)]

Through the implementation of a preventative maintenance program, this equipment is expected to continuously operate in compliance with applicable rules and regulations including Rule 401 and Regulation. The retention of records enables the facility to demonstrate compliance with all applicable permit terms, rules, and regulations

4. This baghouse shall be operated in compliance with applicable requirements of 40 CFR 60 Subpart F – Standards of Performance for Portland Cement Plants and 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants From the Portland Cement Manufacturing Industry. [40 CFR Part 60 subpart F; 40 CFR Part 63 subpart LLL; Rule 1303(A)]

This condition identifies compliance with the applicable federal regulation is required.

5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity. [40 CFR 63.1345; Rule 401]

This condition ensures equipment meets opacity requirements, validated as necessary by EPA method 9.

6. This baghouse shall discharge no more than 0.13 pounds per hour of PM10 at a maximum concentration of 0.005 grains/dscf at the operating conditions given in the above description (BACT). This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District. [Rule 1303(A); Rule 404]

Specifies BACT emission limits. Baghouse is guaranteed to 0.005 gr/dscf by reputable manufacturer and as such initial compliance testing is not required, but may be required later at the discretion of the District.

7. This unit shall be equipped with a device to measure the pressure differential across the bags (manometer). [Rule 1303(A)]

The requirement to install, maintain, and operate a pressure differential recording device aides the o/o in establishing and maintaining optimal operating pressures which ensures baghouse is

operating efficiently to help achieve Rule 404 and 1303 emission limits as well as avoidance of bag leaks which could lead to visible emissions exceedances (Rule 401).

8. The o/o shall maintain on-site a minimum inventory of replacement bags that assures compliance with these conditions. [Rule 1303(A)]

This condition helps to ensure that there is minimal upset in process runs and visible emissions due to malfunction of emission control equipment.

BAGHOUSE 613BF302 – MDAQMD PERMIT # C012928; consisting of:

a DCL CFM-770 pulse jet type dust collector with 14 spun bonded polyester cartridges (or equivalent), each cartridge measuring 8” x 26”, and whose total filter area is 770 square feet, equipped with a 15 hp fan generating 3000 cfm of flow, for an air to cloth ratio of 3.8:1. This unit serves the Cardinal Scale Loadout Spout (North) under permit B012929.

1. The owner/operator (o/o) shall maintain this baghouse in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants. [Rule 204]

Through implementation of preventative maintenance program this equipment is expected to continuously operate in compliance with applicable rules and regulations including Regulations IV and XIII.

2. This baghouse shall be operated concurrently with Cardinal Scale Loadout spout (North) under permit B012929. [Rule 204; Rule 1303(A)]

Use of this baghouse at all times ensures this equipment is operating in compliance with all applicable district rules namely that this equipment meets emission limits determined at time of permitting to meet Rule 1303 (BACT).

3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District personnel upon request:

- a. Weekly reading of baghouse pressure drop, date and value;
 - b. Monthly baghouse stack observation date and result (using USEPA Method 22, and USEPA Method 9 if necessary); [40 CFR 63.1350(f)]
 - c. Annual bag and bag suspension system inspection date and results;
 - d. Date of bag replacements; and,
 - e. Date and nature of any system repairs. [40 CFR 63.1355(g)]
- [40 CFR Part 63 subpart LLL; Rule 1303(A); Rule 1203(D)(1)(d)(ii)]

Through the implementation of a preventative maintenance program, this equipment is expected to continuously operate in compliance with applicable rules and regulations including Rule 401 and Regulation. The retention of records enables the facility to demonstrate compliance with all applicable permit terms, rules, and regulations

4. This baghouse shall be operated in compliance with applicable requirements of 40 CFR 60 Subpart F – Standards of Performance for Portland Cement Plants and 40 CFR 63 Subpart LLL - National Emission Standard for Hazardous Air Pollutants From the Portland Cement

Manufacturing Industry. [40 CFR Part 60 subpart F; 40 CFR Part 63 subpart LLL; Rule 1303(A)]

This condition identifies compliance with the applicable federal regulation is required.

5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than ten percent opacity. [40 CFR 63.1345; Rule 401]

This condition ensures equipment meets opacity requirements, validated as necessary by EPA method 9.

6. This baghouse shall discharge no more than 0.13 pounds per hour of PM10 at a maximum concentration of 0.005 grains/dscf at the operating conditions given in the above description (BACT). This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District. [Rule 1303(A); Rule 404]

Specifies BACT emission limits. Baghouse is guaranteed to 0.005 gr/dscf by reputable manufacturer and as such initial compliance testing is not required, but may be required later at the discretion of the District.

7. This unit shall be equipped with a device to measure the pressure differential across the bags (manometer). [Rule 1303(A)]

The requirement to install, maintain, and operate a pressure differential recording device aides the o/o in establishing and maintaining optimal operating pressures which ensures baghouse is operating efficiently to help achieve Rule 404 and 1303 emission limits as well as avoidance of bag leaks which could lead to visible emissions exceedances (Rule 401).

8. The o/o shall maintain on-site a minimum inventory of replacement bags that assures compliance with these conditions. [Rule 1303(A)]

This condition helps to ensure that there is minimal upset in process runs and visible emissions due to malfunction of emission control equipment.

C. Title V Permit/FOP – Significant Permit Modification

1. Proposed Changes to FOP

CalPortland submitted an application for Significant Permit Modification in parallel with the application for District Permit modification. The District is processing the proposed FOP changes in accordance with procedures specified in District Rule 1302(D)(1)(d). This preliminary decision also serves as the statement of basis and draft FOP.

The District received a request from CalPortland to change the baghouse bag and bag suspension system inspection frequency from quarterly to annual on all baghouse permits where the kiln or finish mill must be shutdown to perform this inspection. According to CalPortland, fulfilling this requirement on a quarterly basis can be a burden to CalPortland production. In consideration of this change, the District consulted the June 24, 1999 CAPCOA/CARB/EPA Region IX Periodic Monitoring Workgroup Guidelines (CAPCOA Guidelines) and examined all current monitoring requirements placed on baghouse permits proposed for change.

CAPCOA Guidelines state that an annual inspection of the entire baghouse is a sufficient form of monitoring to ensure proper operation. District permits require weekly reading of baghouse pressure drop and monthly baghouse stack observation requirements.

The District determines that an annual baghouse bag and bag suspension system inspection augmented with existing permit requirements will continue to provide a sufficient level of confidence that each baghouse is being properly operated and maintained.

The following is the list of Permit Units affected by this revision;

FOP Condition No.	Equipment ID (Baghouse District Permit No./ Process District Permit No.)
III.33.3.c	341BF102 (C007488/B007445)
III.33.3.c	341BF103 (C007463/B007445)
III.33.3.c	341BF104 (C007487/B007455)
III.33.3.c	351BF510 (C007494/B007445)
III.43.3.c	411BF201 (C012148/T012146)
III.57.3.c	511BF101 (C007415/B007457)
III.75.3.c	531BF102 (C007474/B007471)
III.75.3.c	531BF103 (C007510/B007471)
III.75.3.c	531BF104 (C007469/B007471)
III.75.3.c	531BF200 (C007468/B007471)
III.75.3.c	531BF300 (C007475/B007471)

The proposed changes to the FOP are indicated in the iterated version of the draft FOP dated 1/19/2018.

2. Title V/FOP – Conclusion

The District has reviewed the applications and proposed modifications to CalPortland's Federal Operating Permit. The District has determined that the proposed modification is in compliance

with all applicable District, state, and federal rules and regulations as proposed when operated in the terms of the permit conditions given herein.

D. Comment Period and Notifications

1. Public Comment

This preliminary determination/decision will be publicly noticed on January 25, 2018, allowing for public comment until February 24, 2018. Please see Appendix B for noticing details.

2. Notifications

The preliminary decision was submitted to USEPA and CARB pursuant to District Rule 1302 for a forty-five (45) day review period on January 19, 2018. The final modified FOP shall be issued on or about March 19, 2018.

All correspondence as required by District Rules 1302 were forwarded electronically to the following recipients:

Director, Office of Air Division
United States EPA, Region IX
75 Hawthorne Street
San Francisco, CA 94105
R9airpermits_AV_MD@epa.gov

Chief, Stationary Source Division
California Air Resources Board
P.O. Box 2815
Sacramento, CA 95812
ttele@arb.ca.gov

Desirea Haggard
Environmental Manager
CalPortland Company
P.O. Box 146
Oro Grande, CA 92368
dhaggard@calportland.com

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Appendix A Application



RECEIVED
MDAQMD

17 AUG 15 PM 12:40

August 15, 2017

Mojave Desert Air Quality Management District
Attn: Mr. Chris Anderson
14306 Park Avenue
Victorville, CA 92392

Re: Application for Truck Loadout "Cardinal Scale" Dust Collectors

Dear Mr. Anderson,

CalPortland Company is submitting an application for a new truck scale and loadout area referred to as the "Cardinal Scale" loadout. Enclosed is the application package and checks for the 3 dust collector applications.

If you have any questions, please contact me at (626) 691-1966 or dhaggard@calportland.com.

Sincerely,

A handwritten signature in cursive script that reads "Desirea Haggard".

Desirea Haggard
Environmental Manager



SESPE

CONSULTING, INC.

374 Poli Street, Suite 200 • Ventura, California 93001

AUTHORITY TO CONSTRUCT (ATC) APPLICATION PACKAGE

CARDINAL SCALE LOADOUT

CALPORTLAND ORO GRANDE FACILITY
FEDERAL OPERATING PERMIT #: 223900003
MDAQMD FACILITY #: 3

ORO GRANDE, CA

August 7, 2017

Prepared for: CalPortland Company
P.O. Box 146
Oro Grande, CA 92368

Prepared by: Sespe Consulting, Inc.
374 Poli Street, Suite 200
Ventura, California 93001
(805) 275-1515

**AUTHORITY TO CONSTRUCT (ATC) APPLICATION PACKAGE
CARDINAL SCALE LOADOUT**

CalPortland Company Oro Grande Facility
Federal Operating Permit #: 223900003
Oro Grande, CA

August 7, 2017

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SESPE

CONSULTING, INC.

374 Poli Street, Suite 200 • Ventura, California 93001

AUTHORITY TO CONSTRUCT (ATC) APPLICATION PACKAGE CARDINAL SCALE LOADOUT

CalPortland Oro Grande Facility
Federal Operating Permit #: 223900003
Oro Grande, CA

August 7, 2017

1.0 BACKGROUND

CalPortland Company (CalPortland) operates a cement manufacturing facility at 19409 National Trails Highway in Oro Grande, California 92368 (Facility). The Facility currently has Federal Operating Permit #223900003 (Permit) issued by Mojave Desert Air Quality Management District (MDAQMD) for the existing cement production operations.

This Authority to Construct (ATC) Application Package has been prepared to modify the existing equipment near the Truck Loading Station 4. Specifically, CalPortland wishes to install an additional cement truck load-out point (Cardinal Scale Loadout) adjacent to the existing load-out point Truck Loading Station 4. The proposed load-out point will be adjacent to the existing load-out point, enabling trucks to load two (2) types of cement in this area simultaneously. This proposed change will require that one of the four (4) silos currently feeding Truck Loading Station 4 (Silo #21) be diverted to feed the proposed Cardinal Scale Loadout. In addition, the vent tube from Cement Silo #21 to baghouse 611BF040 will be severed and, instead, a new baghouse (#611BF041) will be installed on Cement Silo #21. From Silo #21, cement products will be transferred via three (3) enclosed pneumatic air slides to two (2) load-out spouts (613LS301 & 613LS302), each of which is equipped with a dual axis spout positioner (613BK301 & 316BK302). The two (2) spouts are positioned to load both of a truck's trailer bins simultaneously, not to load two entirely separate trucks simultaneously. Both of the spout positioning systems will be equipped with baghouse filters (613BF301 & 613BF302). As the entire system from the silo to the spouts is enclosed and air tight, any dust emissions generated in these sources is routed to these baghouses. Please see the attached Process Flow Diagrams for a visual representation of this process as well as an understanding of where the process occurs within the larger plant's process flow.

The proposed Cardinal Scale Loadout will not increase the existing throughput limits at the Facility, but rather allow loading of two (2) cement types/products into the trucks and/or trailers simultaneously. This will reduce haul truck wait times and onsite traffic during busy periods. During a normal day, the same amount of material that would be loaded out to haul trucks without this modification is expected to be loaded out with this modification, only over a shorter duration. Furthermore, the path the material will take with this modification includes the same emissions source path the material would

take without this modification (i.e. a cement silo and a load-out point). Therefore, this modification is expected to have no net effect on Facility Potential to Emit (PTE) emissions. Permitted and unpermitted emissions are expected to remain essentially unchanged (see Section 3.1 for additional discussion of the emissions implications of this Project).

While this application package is being submitted in order to obtain an ATC, this Facility currently operates under Federal Operating Permit #223900003. As such, the next step in the permitting process will be to modify the Federal Operating Permit. Please note that the proposed modification is a Minor Permit Modification per Rule 1201. Additionally, the proposed modification is not considered a Major PSD Modification. Therefore, this action will not require public noticing per Rule 1207 or a separate PSD permit per Rule 1600.

1.1 Facility Information

Applicant: CalPortland Company
MDAQMD Company #: 2239
Facility Name: CalPortland Oro Grande Facility
MDAQMD Facility #: 3
Federal Operating Permit ID#: 223900003
Equipment Address: 19409 National Trails Highway
Oro Grande, California 92368
Nature of Business: Cement Manufacturing Facility
SIC Code 3241
Facility Contact: Mrs. Desirea Haggard
Environmental Manager
P.O. Box 146
Oro Grande, CA 92368
(760) 269-1135
dhaggard@calportland.com
Responsible Official: Mr. Richard P. Walters Jr.
Plant Manager
P.O. Box 146
Oro Grande, CA 92368
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Consultant Contact: Garrett Zuleger, P.E.
Project Manager I - Engineering
Sespe Consulting, Inc
374 Poli Street, Suite 200
Ventura, CA 93001
(805) 275-1515
Title V Facility: Yes

2.0 GENERAL INFORMATION

This Section presents the information required by MDAQMD's "Permit Application Instructions" form.

As this is an ATC application package, MDAQMD's General and Control Equipment Forms are included in Appendix B.

2.1 Equipment / Process Location Drawing

Appendix A contains figures showing the location of the facility and the location of the proposed Cardinal Scale Loadout within the Facility.

2.2 Equipment Description

This section includes a description of the emissions sources and controls that are expected to be permitted.

Baghouse on Cement Silo #21

Common Name:	Pulse Jet Baghouse with Polyester Felt Bags
Manufacturer:	Mikro-Pul Nederman
Model Number:	196(6)-12-20-TR-B
Number of Pieces:	One (1)
Burners / Fuels:	N/A. Attached blower is powered by electricity.
Function:	Emissions (dust) control device.
Dimensions:	196 bags, each 6" x 12'
Maximum Capacity:	15,000 cubic feet of air per minute.
Equipment Details:	See equipment specifications in Appendix D.

Baghouses on Load-Out Spouts (2)

Common Name:	Pulse Jet Baghouses with Polyester Felt Bags
Manufacturer:	Dust Control and Loading Systems, Inc.
Model Number:	CFM-770
Number of Pieces:	Two (2)
Number of Pieces:	Two (2) jet pulse baghouses (#613BF301, #613BF302) connected to the north and south truck load-out collection bins/spouts,
Burners / Fuels:	N/A. Attached 15 hp blowers are powered by electricity.
Function:	Emissions (dust) control device.
Dimensions:	Total filter area = 770 square feet.
Maximum Capacity:	3,000 cubic feet of air per minute each.
Equipment Details:	See equipment specifications in Appendix D.

Load-Out Spouts (2)

Common Name: Load-Out Spouts
 Manufacturer: DCL Model HPD2x2 Dual Axis, Internally Vented, Spout Positioner
 Model Number: See equipment specifications in Appendix D.
 Number of Pieces: Two (2) load-out spouts (#613LS301, #613LS302) are connected to the two (2) spout positioners (#613BK301, #613BK302) via air-tight connection.
 Burners / Fuels: N/A. The two (2) heavy duty 60:1 worm gear reducers with 1 HP are powered by electricity.
 Function: Load cement into transport trucks.
 Dimensions: Overall height = 27"
 Horizontal travel = 2' x 2'
 Maximum Capacity: No change in throughputs.
 Equipment Details: See equipment specifications in Appendix D.

2.3 Process Description

The proposed Cardinal Scale Loadout will allow two (2) trucks to load out simultaneously from this portion of the plant where before only one could load out at a time. Cement products are transferred from Cement Silo #21 via three (3) air slides to two (2) load-out spouts, each with a spout positioner. The two (2) proposed load-out spouts transfer the material into both of a haul truck's trailers simultaneously. Cement Silo #21, the air slides, the spouts, and the spout positioners are all enclosed with air-tight connections.

Cement Silo #21 will be equipped with a new baghouse with a 15,000 cfm fan. The two (2) load-out spouts will each be equipped with a baghouse filter that will control any emissions that occur inside the series of connected devices proposed by this Project. These baghouses each have a 15 hp fan that generates 2,800 cfm of flow.

Please see the attached Process Flow Diagram in Appendix A for more detail. In addition, the location of the equipment is shown on the site plan in Appendix A. The manufacturer specifications for the proposed equipment is included in Appendix D

2.4 Equipment Operating Schedule

The proposed truck loading rack will operate on the following schedule:

Parameter	Hours / Day	Days / Weeks	Weeks / Year
Average Schedule	24	6	52
Max Schedule	24	7	52

2.5 Process Weight

The proposed Cardinal Scale Loadout will not increase the existing throughput at the Facility. CalPortland will continue to comply with the current permit throughput limit of 1,600 tons of per hour at the primary crusher. Additionally, longer term throughput will not be changed as a result of this Project.

This additional capacity of the two new spouts will enable the faster loading of trucks during periods of high demand, not increase overall throughput produced/sold.

2.6 Fuels and Burners Used

No fuels or burners will be used to operate the proposed equipment. All of the proposed equipment is powered by electricity.

2.7 Flow Diagram

A simple illustration of the proposed Cardinal Scale Loadout (referred to as the "cardinal scale") process flow is included in Appendix A.

2.8 Drawings of Equipment / Process

Figures are presented in Appendix A.

3.0 PROJECT EMISSIONS

This section addresses the emissions impacts associated with this ATC application.

3.1 Criteria Pollutants

All emissions generated by the proposed equipment will be controlled by one of the three (3) baghouses and will, therefore, exist from one of the (3) three stacks. Particulate matter emissions at each of the stacks will be less than 0.005 grains per dry standard cubic foot (grains/dscf) based on manufacturer specifications. This emissions level was recently identified by CalPortland as the Best Available Control Technology (BACT) standard for new baghouses at this Facility.

This Project does not result in a quantifiable change in Facility emissions because (1) Facility throughput will not change as a result of the Project and (2) the cement that passes through the proposed equipment would pass through the same number and type of emissions sources without the Project. While the proposed baghouses are likely more efficient than the existing baghouses at Truck Loading Station 4 (existing baghouses 611BF040 and 611BF202 both have an emissions limit of 0.01 grains/dscf), this is not sufficient to assign an emissions reduction to the Project. In order to calculate a reduction in Facility emissions due to the new baghouses, the exact amount of cement loaded by Cardinal Scale Loadout would need to be known. Since there is no requirement that a certain amount of the cement pass through the Cardinal Scale Loadout, it is not possible to quantify an emissions reduction. In other words, the Cardinal Scale Loadout may not be used at all on some days, so a reduction in emissions is not certain. For this reasoning, this Project is assumed to produce no change in emissions.

3.2 Air Toxics

While the cement dust generated by the proposed equipment is comprised of some toxic components, the total amount of cement dust emissions produced by the Facility will remain unchanged. Therefore, the proposed equipment will not cause an increase in air toxic emissions and air dispersion/health risk assessment modeling is not included in this application.

3.3 Visible Emissions

All three (3) of the proposed stacks will produce visible emissions of less than 10% opacity.

4.0 MDAQMD RULE COMPLIANCE EVALUATION

This section discusses the potentially applicable MDAQMD rules.

4.1 Regulation II – Permits

The rules in Regulation II that may potentially apply to the Project are:

- **Rule 201: Permit to Construct**

This rule requires facilities to obtain written authorization prior to construction of equipment that will emit pollutants. Since this Project requires a small amount of construction, this Authority to Construct (ATC) application has been submitted. Once the ATC is issued, a Federal Operating Permit Modification application will be submitted.

- **Rule 210: Applications**

This rule requires a facility to file an application for an ATC. As described for Rule 201 above, this application is for an ATC.

- **Rule 217: Provisions for Sampling and Testing Facilities**

This rule requires CalPortland to provide and maintain the necessary platforms, electrical outlets, access and other utilities necessary for the safe sample collections and testing for emissions. CalPortland will ensure that the baghouse stacks are accessible and include the necessary amenities to conduct emissions testing.

- **Rule 221: Federal Operating Permit Requirement.**

This rule requires certain Facilities to obtain Federal Operating Permits. The installation of the proposed Cardinal Scale Loadout will require a Federal Operating Permit Modification. Once the ATC is issued, a Federal Operating Permit Modification application will be submitted.

4.2 Regulation III – Fees

The rules in Regulation III that may potentially apply to the Project are:

- **Rule 301: Permit Fees**

This rule pertains to the amount, frequency and schedule for payments associated with applications, annual permit fees, engineering analysis of complex sources and others. Per Section (C)(1)(a) of this Rule, the filing fee to be submitted with applications is \$269.00. As such, this application includes a check for \$269.

- **Rule 312: Fees for Federal Operating Permits**

CalPortland has agreed to pay any fees necessary for the Federal Operating Permit. These fees are not meant to be included with this application, though.

4.3 Regulation IV – Prohibitions

The rules in Regulation IV that may potentially apply to the Project are:

- **Rule 401: Visible Emissions**

This rule prohibits emissions of air contaminants that exceed a Ringelmann No. 1 (darkness) or of such opacity equal to or greater than a Ringelmann No. 1. CalPortland utilizes the accepted methods of compliance with this rule. These methods include but are not limited to additions of baghouses to particulate emitting sources, water sprays as needed on other particulate sources and watering of haul roads, as well as good combustion techniques (e.g. haul truck idling).

- **Rule 402: Nuisance**

This rule pertains to emissions discharged in such quantities to be a bother and nuisance to the public and/or their property. The visible emissions control methods that CalPortland utilizes to comply with Rule 401 preclude violations of this rule.

- **Rule 403: Fugitive Dust**

This rule prohibits fugitive dust resulting from activities occurring at the Facility (transport, handling, construction or storage activity) from remaining suspended in the air long enough to cross a property line. The visible emissions control methods that CalPortland utilizes to comply with Rule 401 preclude violations of this rule.

- **Rule 404: Particulate Matter Concentration**

This rule limits the concentration of particulate matter based on the flow rate of discharge from the emitting source. All proposed emissions sources will be equipped with baghouses, which should meet and surpass the limits of this rule.

- **Rule 405: Solid Particulate Matter Weight**

This rule limits the particulate matter emissions based on a mass per time rate. All proposed emissions sources will be equipped with baghouses, which should meet and surpass the limits of this rule.

- **Rule 430: Breakdown Provisions**

This rule requires timely notification be made to MDAQMD for unforeseen breakdowns in any permitted emissions source. CalPortland has operated in the MDAQMD for many years, is familiar with this rule, and will continue to comply following installation of the proposed Cardinal Scale Loadout.

4.4 Regulation IX – New Source Performance Standards

Regulation IX only includes the following rule:

- **Rule 900: Standards of Performance For New Stationary Sources (NSPS)**

The Federal NSPS requirements have been adopted by reference as Regulation IX. Specifically, 40 CFR 60, Subpart F – Standards of Performance for Portland Cement Plants applies to this Facility. This rule limits the allowable opacity from kilns and clinker coolers. It does not apply to the proposed Cardinal Scale Loadout.

4.5 Regulation X – Emission Standards for Additional Specific Air Contaminants

Regulation X only includes the following rule:

- **Rule 1000: National Emission Standards for Hazardous Air Pollutants (NESHAP)**

The Federal NESHAP requirements in 40 CFR 61 have been adopted by reference as Regulation X. However, none of the 40 CFR 61 Subparts apply to the proposed Cardinal Scale Loadout.

4.6 Regulation XI – Source Specific Regulations

None of the rules in Regulation XI apply to the proposed Cardinal Scale Loadout station.

4.7 Regulation XII – Federal Operating Permits

The rules in Regulation XII that may potentially apply to the Project are:

- **Rule 1201: Definitions**

The proposed Cardinal Scale Loadout meets the following definition of a Minor Permit Modification from this rule:

A revision to a FOP which is not an Administrative Permit Amendment and meets all of the following criteria:

- (1) The proposed modification does not violate or cause a violation of any Applicable Requirement; and*
- (2) The proposed modification does not relax any monitoring reporting or record keeping requirements; and*
- (3) The proposed modification does not require or change a federally mandated case-by-case determination of an emission limitation, or other standard, a facility specific determination of ambient impacts for temporary facilities, or a visibility or increment analysis or require or change a case-by-case determination of an emissions limitation or other standard required or imposed pursuant to District Regulation XIII – New Source Review; and*
- (4) The proposed modification does not impose or change a permit condition which allows the facility, or any permit unit at the facility, to operate below the threshold of applicability for any Applicable Requirement or of this regulation; and*
- (5) The proposed modification is not a modification under Title I of the Federal Clean Air Act.*

- **Rule 1205: Modifications of Federal Operating Permits**

This Rule presents the requirements for obtaining a modification to an existing Federal Operating Permit, which is the next step of this Project. The proposed Cardinal Scale Loadout can be categorized as a Minor Permit Modification (see Rule 1201). Per this rule, the Minor Modification Application package will require the following components.

- I. *A description of the proposed change, the emissions resulting from the change, and any new Applicable Requirements which will apply if the change occurs; and*
- II. *Suggested language for the proposed change, including but not limited to terms and conditions necessary to regulate the proposed change; and*
- III. *Certification pursuant to the provisions of District Rule 1208 that the proposed change meets the criteria for a Minor Permit Modification; and*
- IV. *Completed forms to be used to notify USEPA and any Affected State(s) of the submission of an application for a Minor Permit Modification.*

- **Rule 1207: Notice and Comment**

This rule outlines the public notice and comment requirements for federal operating permits. However, according to Rule 1203, Minor Permit Modifications do not require public notice and comment.

- **Rule 1208: Certification**

This rule requires that all Federal Operating Permit applications include certification by a responsible official. The certification will be included with the Minor Permit Modification application package.

4.8 Regulation XIII – New Source Review

The rules in Regulation XIII that may potentially apply to the Project are:

- **Rule 1303: Requirements**

Part A of this rule requires Best Available Control Technology (BACT) for the proposed emissions sources. For the proposed emissions sources, the BACT standard is the use of baghouses that meet 0.005 grains/dscf at the discharge point. According to the manufacturers, the proposed baghouses meet this standard. This is consistent with the BACT standard recently identified for this Facility.

The remaining portion of this rule requires offsets for emissions increases beyond designated thresholds. Because the proposed modification does not result in an emissions increase, these portions of Rule 1303 are not applicable.

- **Rule 1310: Federal Major Facilities and Federal Major Modifications**

The proposed Cardinal Scale Loadout station is a Minor Permit Modification, not a Major Permit Modification, so this rule does not apply.

- **Rule 1320: New Source Review For Toxic Air Contaminants**

The proposed Cardinal Scale Loadout is exempt from this rule.

4.9 Regulation XIV – Emission Reduction Credit Banking

Regulation XIV – Emission Reduction Credit Banking do not apply to this Project.

4.10 Regulation XV – Emissions Standards for Specific Toxic Air Contaminants

Regulation XV – Emissions Standards for Specific Toxic Air Contaminants does not apply to this Project.

4.11 Regulation XVI – Prevention of Significance Deterioration (PSD)

Regulation XVI only includes the following rule:

- ***Rule 1600: Prevention of Significant Deterioration (PSD)***

This Rule incorporates by reference portions of federal rule 40 CFR 52.21. It requires that the following facilities obtain a PSD permit before beginning construction or modification: new Major PSD Facilities, facilities with Major PSD Modifications, and Major PSD Facilities that are requesting or modifying a Plant-wide Applicability Limitation. While this Facility meets the definition of a Major PSD Facility, it is certainly not a new Major PSD Facility. Furthermore, the proposed Cardinal Scale Loadout is not considered a Major PSD Modification because it does not result in an emissions increase. Therefore, this Project will not require a separate PSD permit.

5.0 PERMIT WORDING

The following permit wording, which has been primarily derived from the existing Federal Operating Permit, is proposed for the Cardinal Scale Loadout and associated control devices.

Baghouse 611BF041 (on Cement Silo #21)

1. The owner/operator shall install, operate, and maintain this equipment in strict accord with those recommendations of the manufacturer/supplier.
2. The owner/operator shall institute a program of maintenance which embraces at least weekly screenings of visible emissions, monthly visual inspections of all associated equipment (inclusive of the bags and their suspension systems) and regular (at least monthly, but to be determined with experience with this unit) measurements of the pressure differential across the bags.
3. The owner/operator shall log all the items in 2 above in addition to bag replacements, repairs and non-scheduled maintenance. The log shall be kept up-to-date and shall be maintained on-site for a minimum of 5 years and provided to the MDAQMD personnel upon request.
4. The owner/operator shall maintain an inventory of replacement bags on-site at all times which will ensure compliance with applicable Rules of District Regulation IV.
5. The owner/operator shall install and maintain a device which measures the pressure differential across the bags if one has not been provided with this unit.
6. This baghouse shall operate concurrently with the Cement Silo #21.
7. Particulate emissions from this baghouse shall not exceed a concentration of 0.005 grain/dscf. Source testing is not required to establish compliance with this limit. However, MDAQMD has the authority to require emissions testing at its discretion.

Baghouses 613BF301 & 613BF302 (on Truck Loading)

1. The owner/operator shall install, operate, and maintain this equipment in strict accord with those recommendations of the manufacturer/supplier.
2. The owner/operator shall institute a program of maintenance which embraces at least weekly screenings of visible emissions, monthly visual inspections of all associated equipment (inclusive of the bags and their suspension systems) and regular (at least monthly, but to be determined with experience with this unit) measurements of the pressure differential across the bags.
3. The owner/operator shall log all the items in 2 above in addition to bag replacements, repairs and non-scheduled maintenance. The log shall be kept current, on-site for a minimum of 5 years and provided to the MDAQMD personnel upon request.
4. The owner/operator shall maintain an inventory of replacement bags on-site at all times which will ensure compliance with applicable Rules of District Regulation IV.
5. The owner/operator shall install and maintain a device which measures the pressure differential across the bags if one has not been provided with this unit.
6. This baghouse shall operate concurrently with the proposed Cardinal Scale Loadout.
7. Particulate emissions from this baghouse shall not exceed a concentration of 0.005 grain/dscf. Source testing is not required to establish compliance with this limit. However, MDAQMD has the authority to require emissions testing at its discretion.

Cardinal Scale Loadout

1. The owner/operator shall install, operate and maintain this equipment in strict accord with those recommendations of the manufacturer/supplier.
2. The owner/operator shall not operate this equipment unless it is vented to properly functioning baghouses 613BF301 and 613BF302 under valid MDAQMD permit numbers.

CalPortland Oro Grande
Federal Operating Permit #223900003

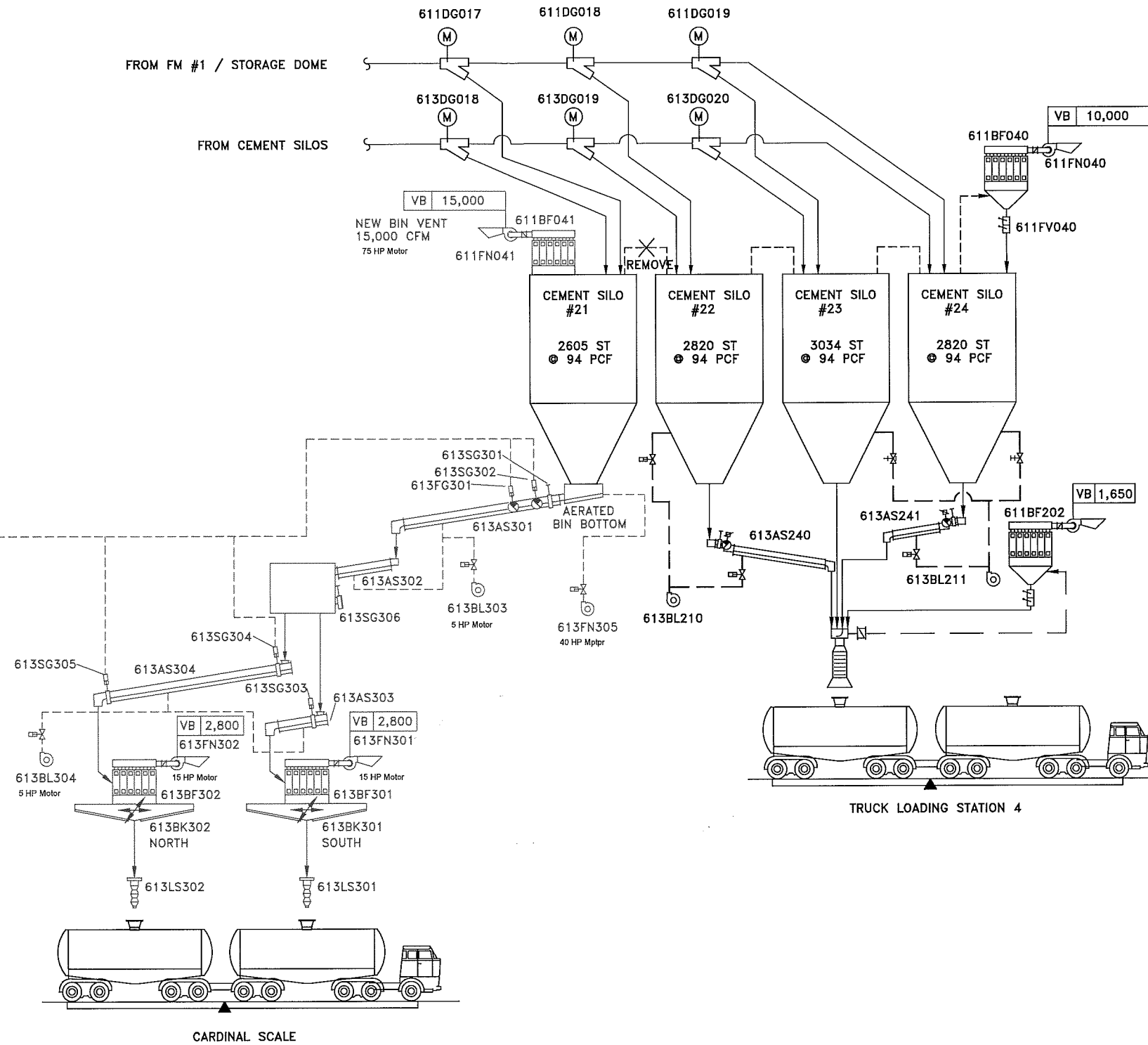
Authority to Construct (ATC) Application
August 7, 2017

APPENDIX A

FIGURES

VALVE TABLE	
TAG	DESCRIPTION
613SG301	MANUAL OPEN/CLOSE SLIDE GATE
613SG302	PNEUMATIC OPEN/CLOSE ROTARY VALVE
613FG301	PNEUMATIC ROTARY FLOW CONTROL VALVE
613SG303	PNEUMATIC OPEN/CLOSE SLIDE GATE
613SG304	PNEUMATIC OPEN/CLOSE SLIDE GATE
613SG305	PNEUMATIC OPEN/CLOSE SLIDE GATE
613SG306	PNEUMATIC OPEN/CLOSE SLIDE GATE W/ BLIND FLANGE

INSTRUMENT AIR FOR PNEUMATIC VALVES. TIE-IN TO EXISTING AIR HEADER PER CALPORTLAND DIRECTION



PLANT ELEVATION: 2781 FT.

LEGEND		
B	LB/H	COMBUSTIBLE FLOW
D	FT	DIAMETER
Q	ST/H	MATERIAL FLOW
H	%	MATERIAL MOISTURE
HU	BTU/LB	NET CALOR VALUE
K	IN	GRAIN SIZE
KB	CM ² /O	BLANE
KR	%	RESIDUAL 200 MESH
M	HP	MOTOR POWER
N	RPM	SPEED
P	INWG	STAT PRESSURE
Q	MBTU/H	HEAT QUANTITY
QS	BTU/LB	HEAT QUANTITY
S	g/ft ³	DUST CONTENT
SG	LB/ft ³	BULK DENSITY
T	°F	TEMPERATURE
TP	°F	DEW POINT
UT	°F	AMBIENT TEMPERATURE: 0°F MIN 110°F MAX
V	%	VOLATILE MATTER
VB	ACFM	GAS FLOW
VN	SCFM	GAS FLOW
VS	SCF/LB	GAS FLOW
VV	ft ³ /S	GAS FLOW

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REFERENCED DRAWINGS		DRAWING REVISIONS					
DRAWING NUMBER	TITLE	REV	DESCRIPTION	BY	CHK	APVD	DATE
-	-	0	ISSUED FOR CONSTRUCTION	JJB	MTH	MTH	12/09/17

ZAP
ENGINEERING & CONSTRUCTION SERVICES, INC.

CALPORTLAND

ORO GRANDE
PROCESS FLOW DIAGRAM
SCALE 4 & CARDINAL SCALE

JOB NO: 16147

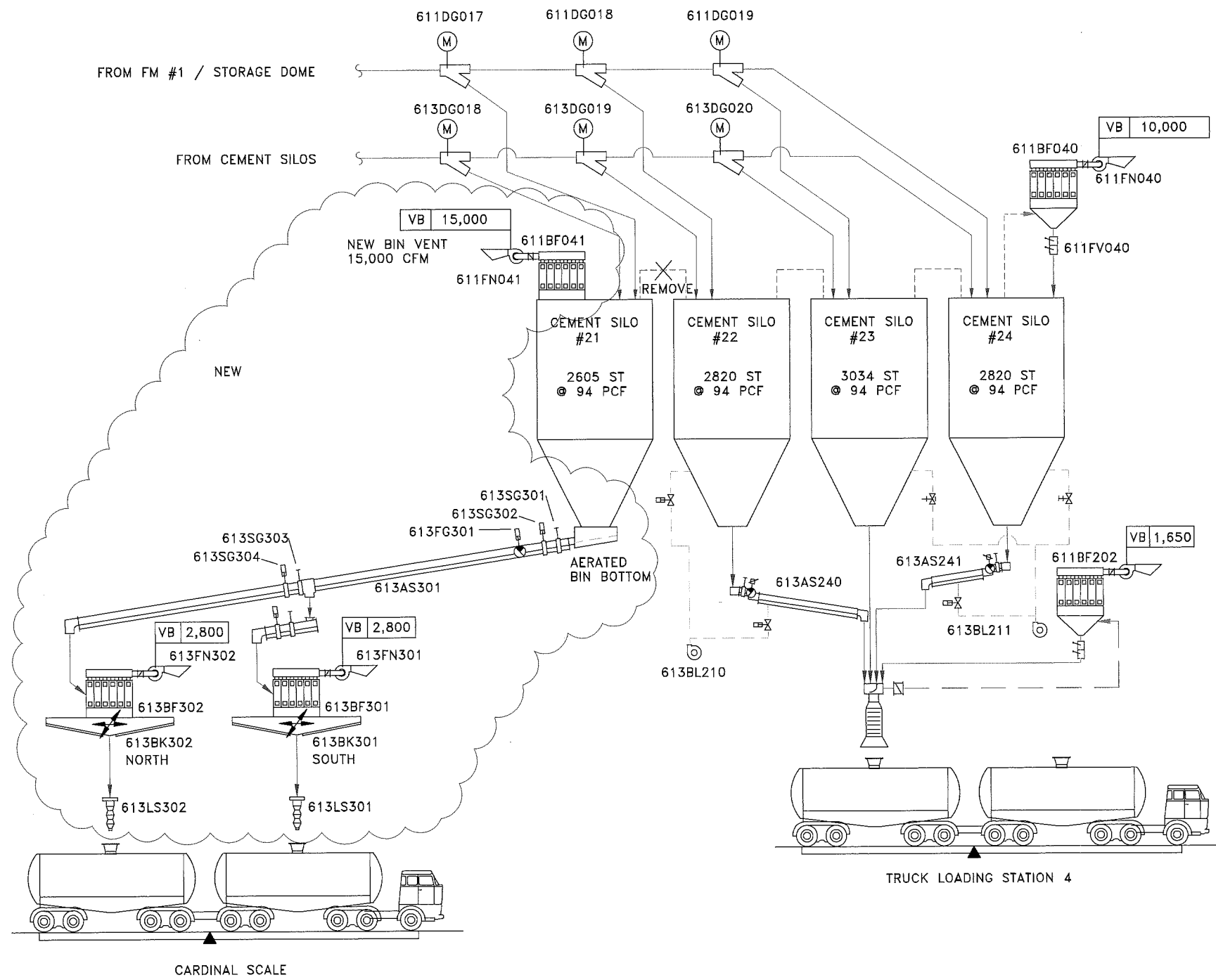
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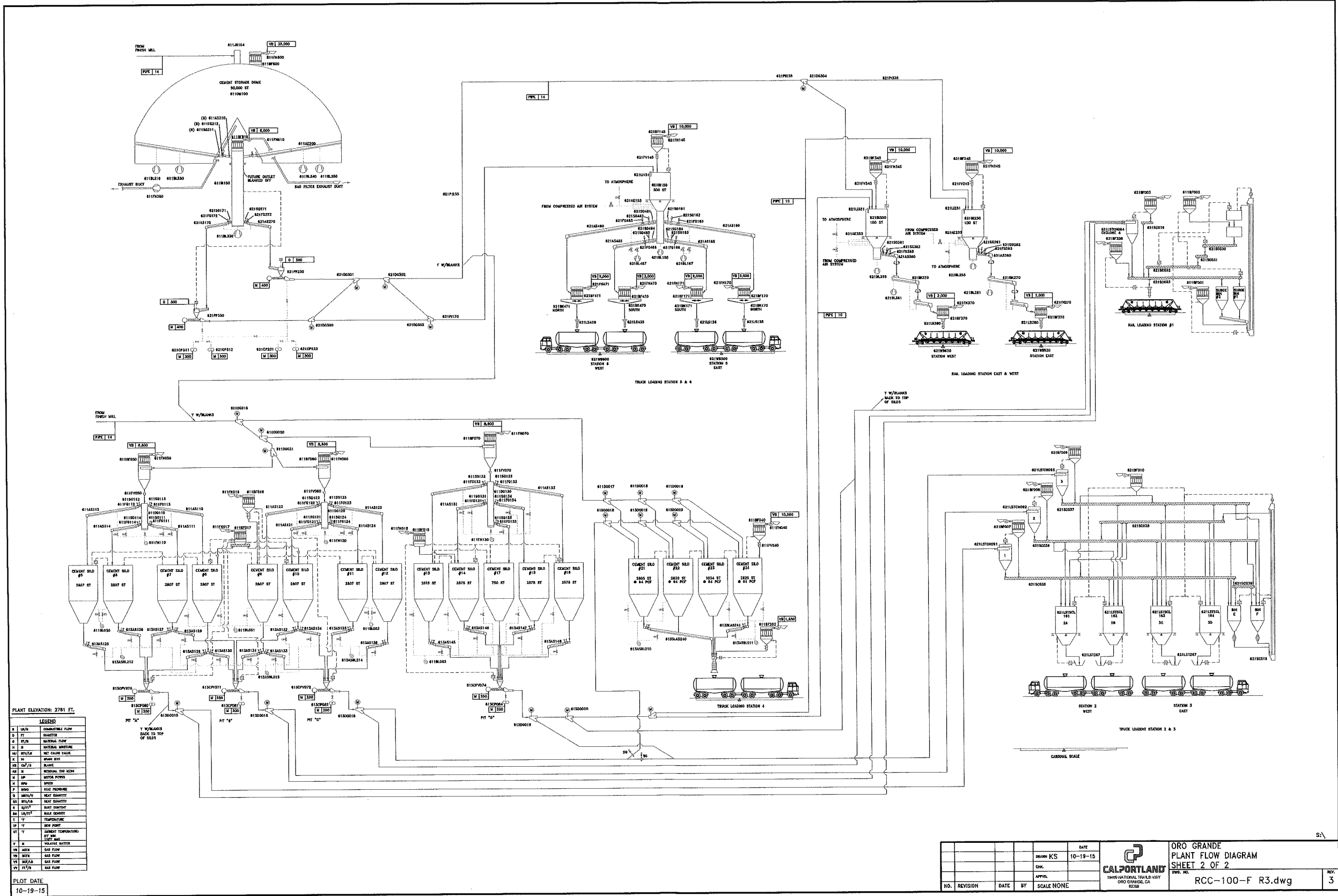


PLANT ELEVATION: 2281 FT.

LEGEND	
1	CONCRETE
2	STEEL
3	WOOD
4	ASBESTOS
5	GLASS
6	BRICK
7	CEMENT
8	ROCK
9	SOIL
10	GRAVEL
11	SAND
12	WATER
13	AIR
14	STEAM
15	HEAT
16	COLD
17	INSULATION
18	PAINT
19	FINISH
20	PLASTER
21	CEILING
22	FLOOR
23	WALL
24	DOOR
25	WINDOW
26	STAIR
27	ELEVATOR
28	MECHANICAL
29	ELECTRICAL
30	PLUMBING
31	HEATING
32	Cooling
33	VENTILATION
34	EXHAUST
35	INTAKE
36	EXHAUST
37	EXHAUST
38	EXHAUST
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50	EXHAUST

PLOT DATE

DRAWN KS		DATE 04-11-17		 1949 WASHINGTON, TONKLE RD ORO GRANDE, CA 95426	ORO GRANDE CARDINAL SCALE FLOW DIAGRAM
CHK.		APP'D.			DWG. NO. OG-613-100.dwg
2	CFM BIN VENT	4/26/17	KS	SCALE NONE	REV. 2
NO.	REVISION	DATE	BY	SCALE	



PLANT ELEVATION: 2781 FT.

LEGEND

1	CONCRETE PUMP
2	SHUTTER
3	FLY
4	MATERIAL PUMP
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100	MATERIAL PUMP

PLOT DATE: 10-19-15

NO.	REVISION	DATE	BY	SCALE	NONE

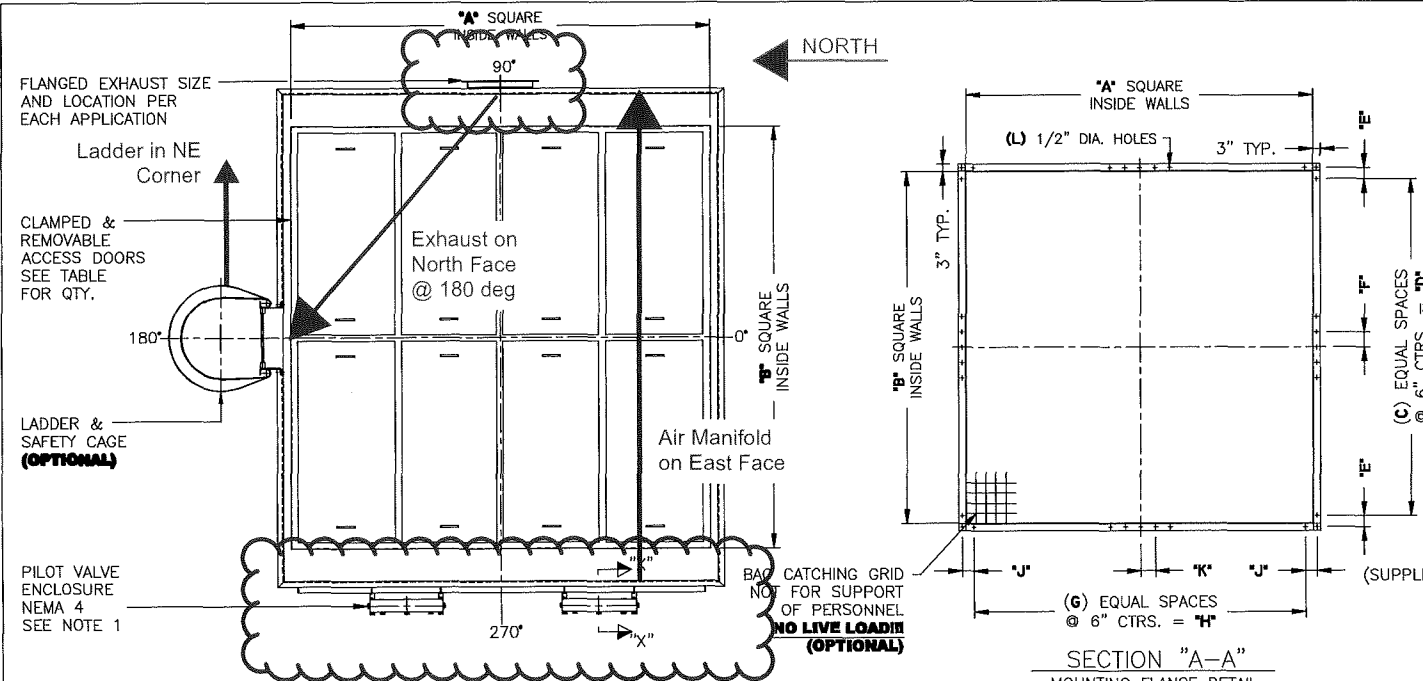
DATE: 10-19-15
 DRAWN: KS
 CHECKED: CHL
 APPROVED: APV

CALPORTLAND
 19400 NATIONAL TRAIL ROAD, SUITE 100
 ORO GRANDE, CA 92730

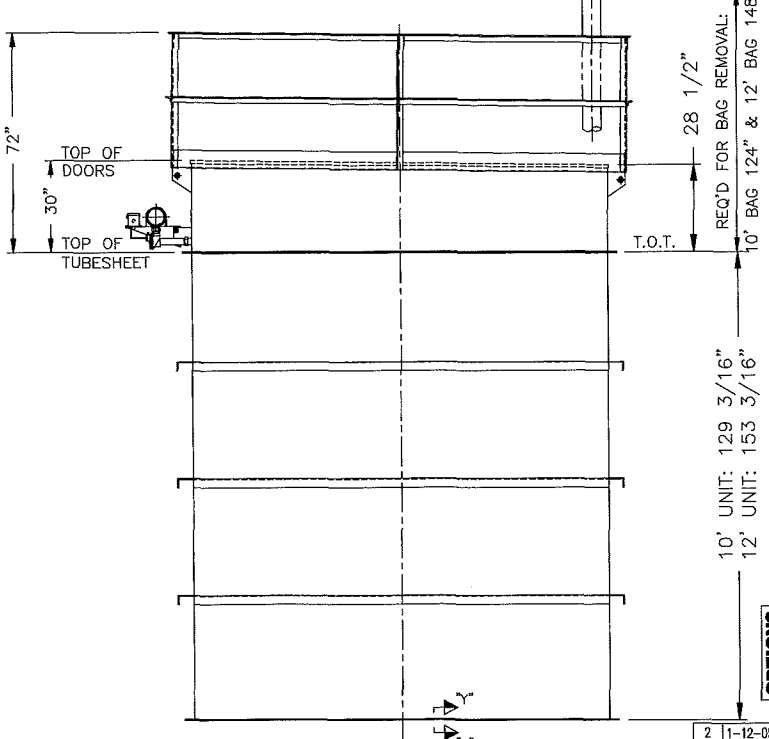
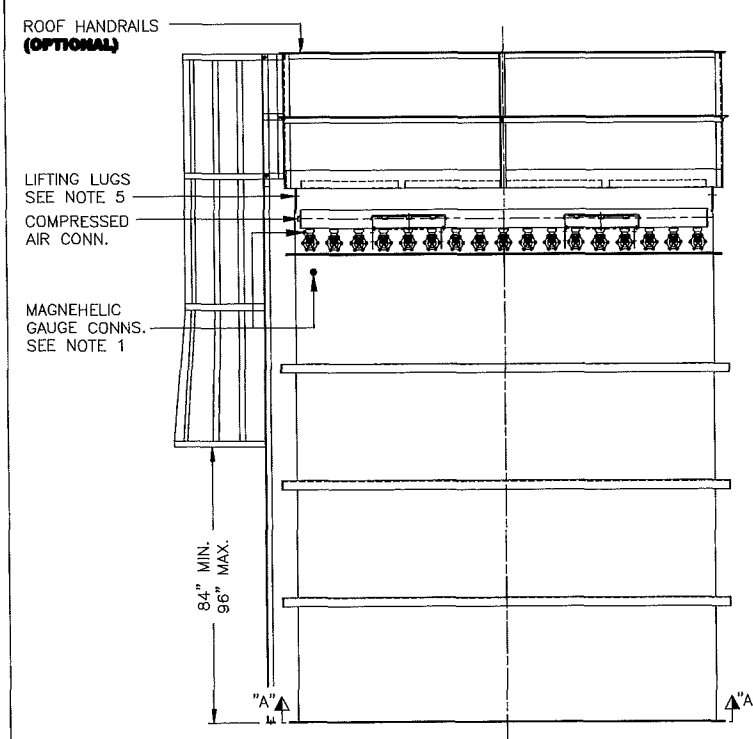
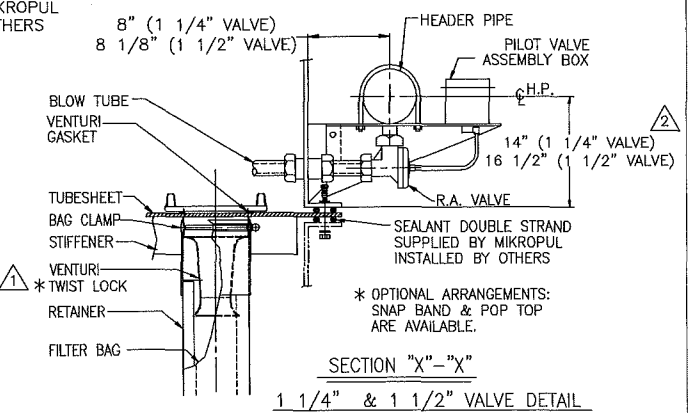
ORO GRANDE PLANT FLOW DIAGRAM
 SHEET 2 OF 2
 RCC-100-F R3.dwg

NOV. 3

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BAG LENGTH	MODEL	# OF ROOF DOORS	# OF FILTERS	FILTER AREA (SQ. FT.)	# OF VALVES	VALVE SIZE	EST. UNIT WT. W/O OPTIONS (LBS.)	DIMENSIONS (IN INCHES)															
								A	B	C	D	E	F	G	H	J	K	L					
10 FT.																							
12 FT.	196S	6	196	3763	14	1 1/4"	9750	114	114	18	108	4 1/2	6	18	108	4 1/2	6	80					



APPLICATION DATA	
A.C.F.M.	
TEMPERATURE	
PRODUCT	
BULK DENSITY	
INDOOR	
OUTDOOR	
SUCTION (NEG.)	
PRESSURE (POS.)	
RATING (IN. OF W.G.)	

ORIENTATION SCHEDULE				
LOCATION	0°	90°	180°	270°
EXHAUST				
COMP. AIR ASSY.				
ROOF HANDRAILS				
LADDER AND CAGE				
BAG CATCHING GRID				
EXH. WEATHERHOOD				

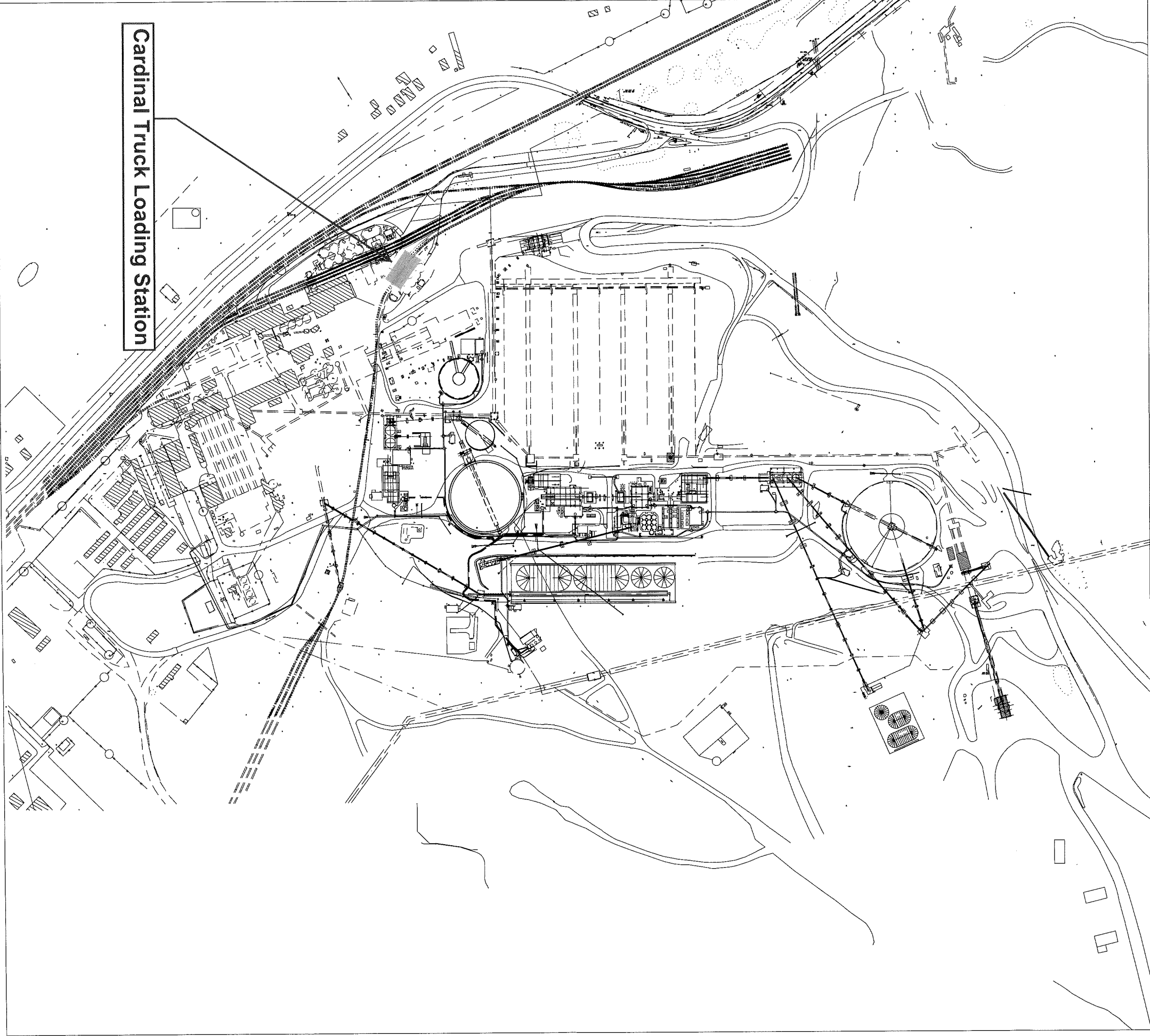
- NOTES:
- MAGNEHELIC GAUGE & NEMA 4 TIMER SHIPPED UNMOUNTED, INSTALLED BY OTHERS. (NEMA 4X, 7 & 9 OPTIONAL)
 - POWER REQUIRED FOR TIMER 115 VOLTS AT 50-60 HZ.
 - UNITS DESIGNED FOR DUST TIGHT NOT GAS TIGHT OPERATION AND RATED FOR ±20" W.G. @ 180°F.
 - DUCTWORK AND PIPING LOAD TO BE INDEPENDENTLY SUPPORTED.
 - LIFTING LUGS ARE RATED TO LIFT ENTIRE UNIT WHEN SHIPPED FULLY ASSEMBLED. SUBASSEMBLED UNITS SUPPLIED WITH LUGS RATED FOR LIFTING INDIVIDUAL SECTIONS.

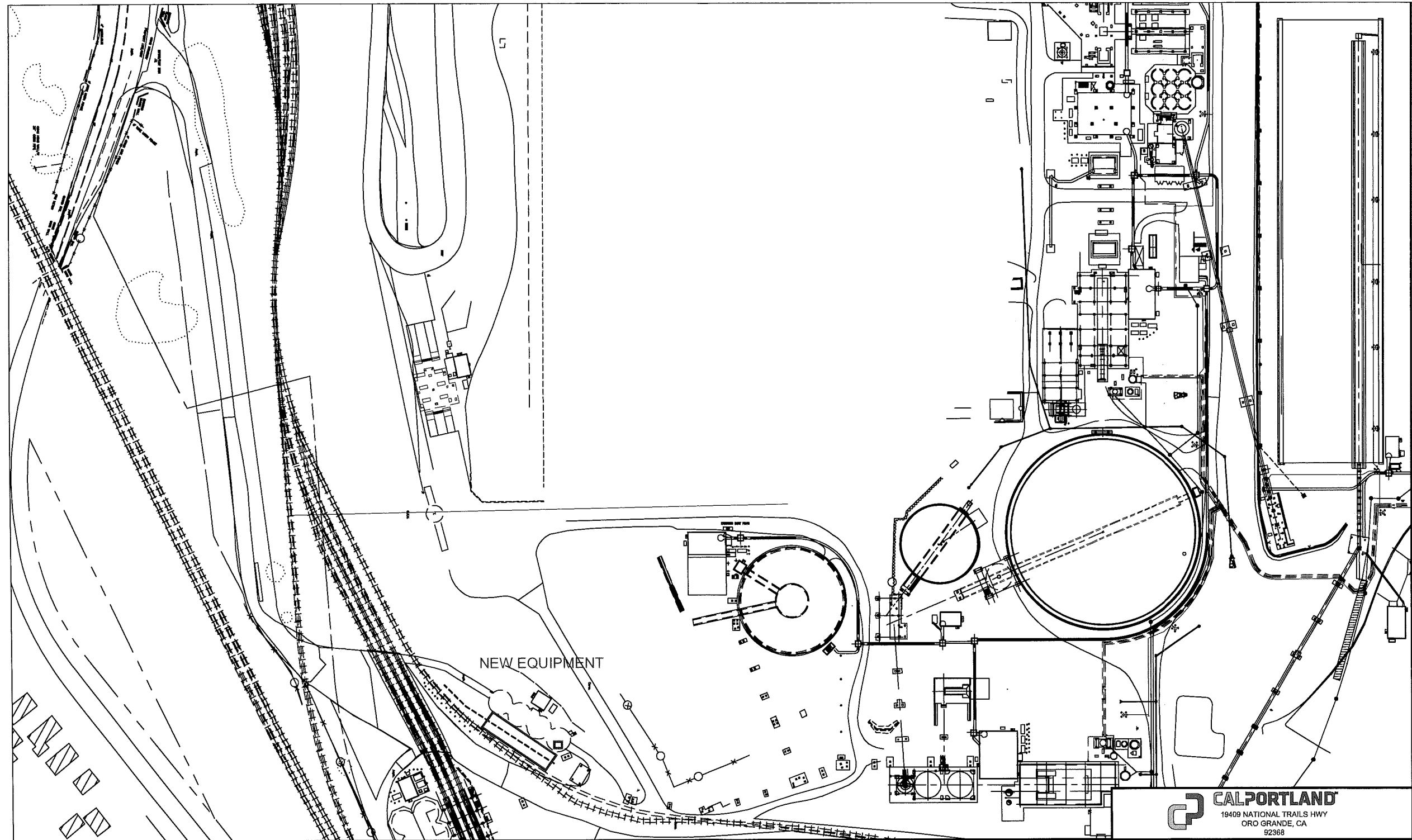
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2	1-12-05	MET	EM	HEADER CENTERLINE DIMENSIONS	
1	7-31-03	JSF	EM	REV'D STD VENTURI TO TWIST LOCK FROM RIVETED	
REVISIONS					

ITEM	REQ	PART NO.	DESCRIPTION	MATERIAL	LBS
BILL OF MATERIAL					
FOR PARTS AND AFTERMARKET SERVICES "1-800-892-PART"					
DESIGN	DBL	DATE	2-03-03		
CHECKED	EM	DATE	2-17-03		
PROJ. ENG.		DATE			
APPROVED:		DATE			
TOLERANCES, UNLESS OTHERWISE SPECIFIED					
DECIMALS:		FRACTIONS:	±1/16		
X	= 4.000	ANGLES:	±1°		
XX	= 0.010	WAXING:			
XXX	= 0.005	✓	= 128 PMS		
SCALE:			1:25		
DWO NO.			BW7177		
SHEET:			1 OF 1		
SIZE:			D		
REV.			2		

ZAP Comments
07-25-20178

Cardinal Truck Loading Station





NEW EQUIPMENT

CALPORTLAND
 19409 NATIONAL TRAILS HWY
 ORO GRANDE, CA
 92368

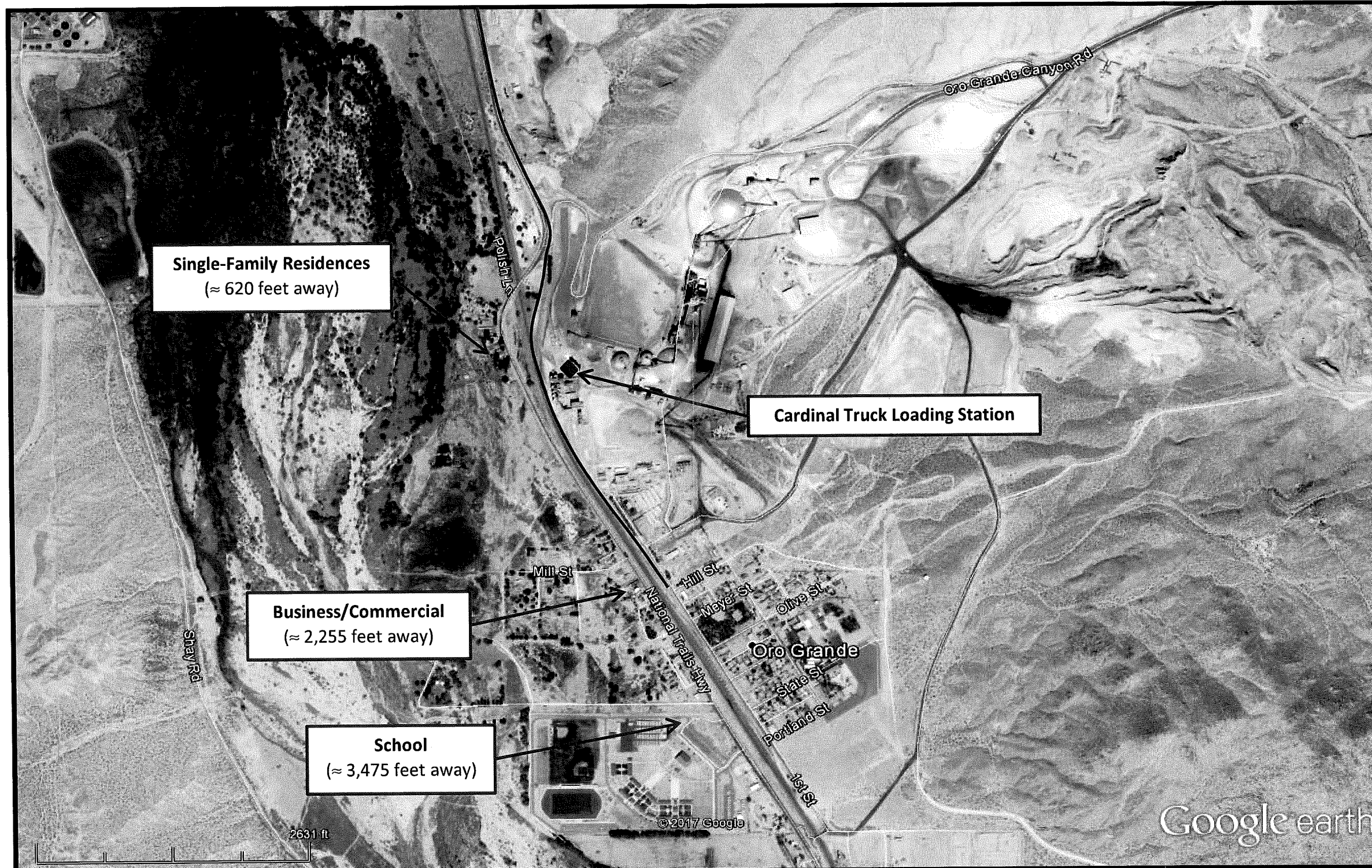
NO.	REVISION	DATE	APPR.	NO.	REVISION	DATE	APPR.
N1	R1	D1	A1	N7	R7	D7	A7
N2	R2	D2	A2	N8	R8	D8	A8
N3	R3	D3	A3	N9	R9	D9	A9
N4	R4	D4	A4	N10	R10	D10	A10
N5	R5	D5	A5	N11	R11	D11	A11
N6	R6	D6	A6	N12	R12	D12	A12

REFERENCE DRAWING

VENDOR:
DWG #:
DESCRIPTION:

PROJECT:			SCALE: N/A SHT: SHT
DWN:	DWN_BY	DATE	XX/XX/XX
CKD:	CKD_BY	DATE	XX/XX/XX
APP:	APP_BY	DATE	XX/XX/XX

Cardinal Scale Upgrade Location



Source: Google Earth 2017

— Approximate Facility Boundary
 Note: No schools located within 1000-feet.



SESPE
 CONSULTING, INC.

FIGURE

1

VICINITY MAP

CalPortland Oro Grande
 19409 National Trails Highway
 Oro Grande, California 92368

PROJECT #:	CA04.17.06	DATE:	6/29/17
SCALE:	as shown	DRAWN BY:	GPS

CalPortland Oro Grande
Federal Operating Permit #223900003

Authority to Construct (ATC) Application
August 7, 2017

APPENDIX B

AUTHORITY TO CONSTRUCT (ATC) APPLICATION FORMS

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MOJAVE DESERT AIR QUALITY MANAGEMENT DISTRICT

14306 Park Avenue, Victorville, CA 92392-2310
(760) 245-1661 Facsimile: (760) 245-2022

www.mdaqmd.ca.gov

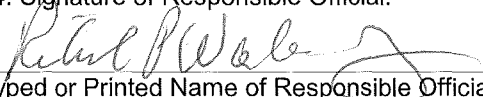
Brad Poiriez
Executive Director

17 AUG 15 PM 12:40

APPLICATION FOR AUTHORITY TO CONSTRUCT AND PERMIT TO OPERATE

Page 1 of 2: please type or print

REMIT \$269.00 WITH THIS DOCUMENT (\$153.00 FOR CHANGE OF OWNER)

1. Permit To Be Issued To (company name to receive permit): CalPortland Company		1a. Federal Tax ID No.: 95-0597220	
2. Mailing/Billing Address (for above company name): P.O. Box 146, Oro Grande, CA 92368			
3. Facility or Business License Name (for equipment location): CalPortland Oro Grande Facility			
4. Facility Address - Location of Equipment (if same as for company, enter "Same"): 19409 National Trails Highway, Oro Grande, CA 92368		Location UTM or Lat/Long:	
5. Contact Name/Title: Desirea Haggard	Email Address: dhaggard@calportland.com	Phone/Fax Nos.: (760) 269-1135	
6. Application is hereby made for Authority To Construct (ATC) and Permit To Operate (PTO) the following equipment: Install new Cardinal Truck Loading Station (3 pneumatic air slides, 2 load-out spouts). See attached application for details. Air Pollution Control Equipment, if any (note that most APCE require a separate application): 3 new baghouses will be installed. See attached application for details.			
7. Application is for: <input type="checkbox"/> New Construction <input checked="" type="checkbox"/> Modification* <input type="checkbox"/> Change of Owner*		For modification or change of owner: *Current Permit Number: 223900003	
8. Type of Organization (check one): <input type="checkbox"/> Individual Owner <input type="checkbox"/> Partnership <input checked="" type="checkbox"/> Corporation <input type="checkbox"/> Utility <input type="checkbox"/> Local Agency <input type="checkbox"/> State Agency <input type="checkbox"/> Federal Agency			
9. General Nature of Business: cement manufacturing facility		Principal Product: cement	SIC Code (if known): 3241
10. Distances (feet and direction to closest): 265 _____ Fenceline 620 _____ Residence 2,255 _____ Business 3,475 _____ School			
11. Facility Annual Throughput by Quarters (percent): 25 % 25 % 25 % 25 % Jan-Mar Apr-Jun Jul-Sep Oct-Dec		12. Expected Facility Operating Hours: 24 6 52 7,488 Hrs/Day Days/Wk Wks/Yr Total Hrs/Yr	
13. Do you claim Confidentiality of Data (if yes, state nature of data on reverse in Remarks)? <input type="checkbox"/> Yes <input type="checkbox"/> No			
14. Signature of Responsible Official: 		Official Title: Plant Manager	
Typed or Printed Name of Responsible Official: Richard P. Walters Jr.		Phone Number: (760) 269-1183	Date Signed: 8/19/17
- For District Use Only -			
Application Number: 2176	Invoice Number: 45146	Permit Number: B012929	Company/Facility Number: 2239/00003

**MOJAVE DESERT AIR QUALITY MANAGEMENT DISTRICT
GENERAL APPLICATION, continued**

Page 2 of 2: please type or print

15. Stack Emissions Information:

<u>Stack No.</u>	<u>Stack Height</u>	<u>Stack Diameter</u>	<u>Exhaust Temp</u>	<u>Exhaust Flow Rate</u>	<u>Exhaust Velocity</u>
1	119'		Ambient	15,000 SCFM	
2	32'		Ambient	3,000 scfm	
3	36'		Ambient	3,000 scfm	

(list additional stacks on a separate sheet)

Stack Height is the distance above ground level to discharge point (feet)

Stack Diameter is the diameter (or equivalent circular diameter) of discharge point (nearest tenth foot)

If using cross-sectional area (A in square feet), equivalent diameter is $D = (1.273A)^{0.5}$

Exhaust Temp in degrees F, actual or estimated to nearest 50 deg F

Exhaust Flow Rate at discharge point in actual cubic feet per minute (ACFM)

Exhaust Velocity in feet per second, design or measured

16. Remarks (basis for confidentiality of data, process description, modification description, etc.):

Please see attached permit application.

If you wish to specify process information as proprietary or confidential, space is provided for this purpose.
The kinds and rates of emissions may not be held confidential; emissions are subject to public disclosure.



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MOJAVE DESERT AIR QUALITY MANAGEMENT DISTRICT
14306 Park Avenue, Victorville, CA 92392-2310
(760) 245-1661 Facsimile: (760) 245-2022

www.mdaqmd.ca.gov
Brad Poiriez
Executive Director

APPLICATION FOR AIR POLLUTION CONTROL EQUIPMENT ONLY

PLEASE TYPE OR PRINT

REMIT \$269.00 WITH THIS DOCUMENT (\$153.00 FOR CHANGE OF OWNER)

Section 1: Facility/Owner Information

a. Permit To Be Issued To (Company Name): CalPortland Company		b. Federal Tax ID #: 95-0597220
c. Mailing/Billing Address (for above company name) P.O. Box 146, Oro Grande, CA 92368		
d. Facility or Business License Name (for equipment location): CalPortland Oro Grande Facility		
e. Facility Address - Location of Equipment (if same as for company, enter "Same"): 19409 National Trails Highway, Oro Grande, CA 92368		Facility UTM or Lat/Long: 34.608377, -117.335926
f. Contact Name/Title: Desirea Haggard	Email Address: dhaggard@calportland.com	Phone/Fax #: (760) 269-1183
General Nature of Business: cement manufacturing facility		
Type of Organization (check one): <input type="checkbox"/> Individual Owner <input type="checkbox"/> Partnership <input checked="" type="checkbox"/> Corporation <input type="checkbox"/> Utility <input type="checkbox"/> Local Agency <input type="checkbox"/> State Agency <input type="checkbox"/> Federal Agency		

Section 2: Nature of Application

Application is hereby made for Authority To Construct (ATC) and Permit To Operate (PTO) the following equipment: One (1) new baghouse attached to existing Silo #21. See attached application package.	
Process Equipment Permit # served by proposed control:	
Existing Silo #21	
Application is for: <input checked="" type="checkbox"/> New Construction <input type="checkbox"/> Modification <input type="checkbox"/> Change of Owner	For modification or change of owner: 223900003 Current Permit Number
Do you claim Confidentiality of Data? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (attach explanation; specify which information provided is confidential)	

Section 3: Equipment Information – complete section A-G as applicable, each control unit requires a separate application

A. Adsorption Units:

Flow diagram of emissions source and control unit: <input type="checkbox"/> included	Manufacturer Specifications/Guarantee: <input type="checkbox"/> included
Manufacturer:	Model:
Adsorbent: <input type="checkbox"/> Activated Charcoal: type _____	<input type="checkbox"/> Other: specify _____
Serial Number:	
Adsorbate(s):	
Number of beds:	Weight of absorbent per bed:
Dimensions of bed: thickness: _____ surface area: _____	
Inlet temperature: _____ °F	Pressure drop across unit: _____ inches H ₂ O
Regeneration: <input type="checkbox"/> Replacement <input type="checkbox"/> Steam <input type="checkbox"/> Other, specify: _____	
Regeneration Method: <input type="checkbox"/> shut down <input type="checkbox"/> alternate use, specify: _____	<input type="checkbox"/> other, specify: _____
Minimum Control efficiency: _____ % _____ ppmv _____ mg/m ³	
Describe method to monitor control efficiency and breakthrough:	

B. Afterburner Units:

Flow diagram of emissions source and control unit: <input type="checkbox"/> included		Manufacturer Specifications/Guarantee: <input type="checkbox"/> included	
Manufacturer:		Model:	
Serial Number:		Combusion chamber dimensions: length: _____ in. Cross sectional area: _____ sq. in.	
Fuel: <input type="checkbox"/> natural gas <input type="checkbox"/> propane <input type="checkbox"/> CARB diesel <input type="checkbox"/> other, specify _____			
Number and rating of burners:		Operating temperature of combustion chamber:	
Inlet temperature: _____ °F		Pressure drop across unit: _____ inches H ₂ O	
Gas flow rate: _____ SCFM			
Catalyst used: <input type="checkbox"/> , please describe:			
Heat exchanger used: <input type="checkbox"/> , please describe:			
Minimum Control efficiency: _____ % _____ ppmv _____ mg/m ³			
Describe method to monitor control efficiency:			

C. Condenser Units:

Flow diagram of emissions source and control unit: <input type="checkbox"/> included		Manufacturer Specifications/Guarantee: <input type="checkbox"/> included	
Manufacturer:		Model:	
Serial Number:		Heat exchange area: _____ ft ²	
Coolant flow rate: _____ gpm water air CARB diesel other, specify _____			
Gas flow rate: _____ scfm		Coolant temperature: inlet _____ °F outlet _____ °F	
Gas temperature: inlet _____ °F outlet _____ °F		Minimum Control efficiency: _____ % _____ ppmv _____ mg/m ³	
Describe method to monitor control efficiency:			

D. Electrostatic Precipitator Units:

Flow diagram of emissions source and control unit: <input type="checkbox"/> included		Manufacturer Specifications/Guarantee: <input type="checkbox"/> included	
Manufacturer:		Model:	
Serial Number:		Collecting electrode area: _____ ft ²	
Gas flow rate: _____ scfm			
Describe method to monitor control efficiency:			

E. Filter Units:

Flow diagram of emissions source and control unit: <input checked="" type="checkbox"/> included		Manufacturer Specifications/Guarantee: <input checked="" type="checkbox"/> included	
Manufacturer: MikroPul		Model: 196(6)-12-20-TR-B	
Serial Number: unknown		Filtering material: Polyester Felt with MikroTex finish to the outside	
Filtering area: 3,763 square feet		Number and dimension of filters: 196 filters, each 6"x12', total area of 3,763 square feet	
Cleaning method: <input type="checkbox"/> shaker <input type="checkbox"/> reverse air <input type="checkbox"/> pulse air <input checked="" type="checkbox"/> pulse jet <input type="checkbox"/> Other, specify: _____			
Gas flow rate: 15,000 scfm			
Unit equipped with a manometer gauge? <input checked="" type="checkbox"/> yes <input type="checkbox"/> no		Manufacturer's specified pressure differential range: _____ inches H ₂ O	
Control efficiency: _____ % _____ ppmv _____ mg/m ³		=0.003 grains/dscf	
Describe method to monitor control efficiency: Monitor gauge pressure differential.			

F. Scrubber Units:

Flow diagram of emissions source and control unit: <input type="checkbox"/> included		Manufacturer Specifications/Guarantee: <input type="checkbox"/> included	
Manufacturer:	Model:	Serial Number:	
Type of scrubber:			
<input type="checkbox"/> high energy, gas stream pressure drop: _____ in. H ₂ O			
<input type="checkbox"/> packed: packing type _____ packing size _____ packing material height _____			
<input type="checkbox"/> spray: number of nozzles _____ nozzle pressure _____ PSIG			
<input type="checkbox"/> Other, specify: _____			
Flow type: <input type="checkbox"/> concurrent <input type="checkbox"/> countercurrent <input type="checkbox"/> crossflow			
Scrubber dimensions: length in direction of gas flow _____ in. cross sectional area _____ sq. in.			
Scrubbant: _____		Scrubbant flow rate: _____ scfm	
Control efficiency: _____ % _____ ppmv _____ mg/m ³			
Describe method to monitor control efficiency:			

G. Other types:

Equipment description:			
Flow diagram of emissions source and control unit: <input type="checkbox"/> included		Manufacturer Specifications: <input type="checkbox"/> included	
Manufacturer:	Model:	Serial Number:	
Gas flow rate: _____ scfm			
Control efficiency: _____ % _____ ppmv _____ mg/m ³			
Describe method to monitor control efficiency:			

Section 4: Emissions Data

Emission Factor Basis (attach any source specified): <input checked="" type="checkbox"/> Manufacturer <input type="checkbox"/> Source Test <input type="checkbox"/> MDAQMD Default <input type="checkbox"/> USEPA AP-42				
<input type="checkbox"/> Other (please specify) _____				
Pollutant	Pre-Control Max. Emissions	Units	Post Control Max. Emissions	Units
NOx	_____	_____	_____	_____
NMHC	_____	_____	_____	_____
SOx	_____	_____	_____	_____
PM10	_____	_____	0.003	grains/dscf <input checked="" type="checkbox"/>
SOx	_____	_____	_____	_____

Section 5 Exhaust Stack Information:

Stack height above grade: 119 _____ ft.	<input checked="" type="checkbox"/> vertical <input type="checkbox"/> horizontal
Stack diameter: _____	
Exhaust gas temperature: Ambient _____ °F w/ 150 F design max	Exhaust Flow Rate: 15,000 SCFM
Greatest height of nearby buildings: _____ ft.	

Section 6: Operation Information

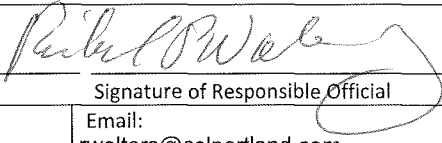
Facility Annual Throughput by Quarters (percent):	Expected Hours of Operation:
<input checked="" type="checkbox"/> Uniform OR _____ % Jan-Mar _____ % Apr-Jun	24 Hrs/Day 6 Days/Wk 52 Wk/Yr 748 Total Annual Hours
_____ % Jul-Sep _____ % Oct-Dec	

Section 7: Receptor Information

Distance (Feet) and direction to the property line of closest: 620 Residence 2,255 Business 3,475 School
Name of Closest School (K-12) Riverside Preparatory School
<i>If the proposed ICE operates within 1,000 feet of a school site and operation results in the emission of hazardous air pollutants, a public notice will be required at the expense of the applicant (CH&S §42301.6)</i>

*Please note, District Staff may contact you for further information. Failure to provide additional information as requested in a timely manner may result in delays in the processing of this permit application.

Section 8: Certification

I hereby certify that all information contained herein is true and correct.			
Richard P. Walters Jr.	Plant Manager		8/9/17
Name of Responsible Official	Official Title	Signature of Responsible Official	Date Signed
Telephone Number: (760) 269-1183	Email: rwalters@calportland.com		

-For District Use only-

Application Number: MD1N 2095	Invoice Number: 44672/MD7871	Permit Number: C012923	Company/Facility Number 2239/3
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14306 Park Avenue, Victorville, CA 92392-2310
(760) 245-1661 Facsimile: (760) 245-2022

www.mdaqmd.ca.gov
Brad Poiriez
Executive Director

APPLICATION FOR AIR POLLUTION CONTROL EQUIPMENT ONLY

PLEASE TYPE OR PRINT

REMIT \$269.00 WITH THIS DOCUMENT (\$153.00 FOR CHANGE OF OWNER)

Section 1: Facility/Owner Information

a. Permit To Be Issued To (Company Name): CalPortland Company		b. Federal Tax ID #: 95-0597220
c. Mailing/Billing Address (for above company name) P.O. Box 146, Oro Grande, CA 92368		
d. Facility or Business License Name (for equipment location): CalPortland Oro Grande Facility		
e. Facility Address - Location of Equipment (if same as for company, enter "Same"): 19409 National Trails Highway, Oro Grande, CA 92368		Facility UTM or Lat/Long: 34.608377, -117.335926
f. Contact Name/Title: Desirea Haggard	Email Address: dhaggard@calportland.com	Phone/Fax #: (760) 269-1183
General Nature of Business: cement manufacturing facility		
Type of Organization (check one): <input type="checkbox"/> Individual Owner <input type="checkbox"/> Partnership <input checked="" type="checkbox"/> Corporation <input type="checkbox"/> Utility <input type="checkbox"/> Local Agency <input type="checkbox"/> State Agency <input type="checkbox"/> Federal Agency		

Section 2: Nature of Application

Application is hereby made for Authority To Construct (ATC) and Permit To Operate (PTO) the following equipment: One baghouse attached to proposed spout/bin. See attached application package.	
Process Equipment Permit # served by proposed control: 613LS301, 613BK301	
Application is for: <input checked="" type="checkbox"/> New Construction <input type="checkbox"/> Modification <input type="checkbox"/> Change of Owner	For modification or change of owner: 223900003 Current Permit Number
Do you claim Confidentiality of Data? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (attach explanation; specify which information provided is confidential)	

Section 3: Equipment Information – complete section A-G as applicable, each control unit requires a separate application

A. Adsorption Units:

Flow diagram of emissions source and control unit: <input type="checkbox"/> included	Manufacturer Specifications/Guarantee: <input type="checkbox"/> included
Manufacturer: _____	Model: _____
Serial Number: _____	Adsorbent: <input type="checkbox"/> Activated Charcoal: type _____ <input type="checkbox"/> Other: specify _____
Adsorbate(s): _____	Number of beds: _____
Weight of adsorbent per bed: _____	Dimensions of bed: thickness: _____ surface area: _____
Inlet temperature: _____ °F	Pressure drop across unit: _____ inches H ₂ O
Regeneration: <input type="checkbox"/> Replacement <input type="checkbox"/> Steam <input type="checkbox"/> Other, specify: _____	Regeneration Method: <input type="checkbox"/> shut down <input type="checkbox"/> alternate use, specify: _____ <input type="checkbox"/> other, specify: _____
Minimum Control efficiency: _____ % _____ ppmv _____ mg/m ³	Describe method to monitor control efficiency and breakthrough:

North Loadout Spout BF
002928

B. Afterburner Units:

Flow diagram of emissions source and control unit: <input type="checkbox"/> included		Manufacturer Specifications/Guarantee: <input type="checkbox"/> included	
Manufacturer: _____		Model: _____	
Serial Number: _____		Cross sectional area: _____ sq. in.	
Combustion chamber dimensions: length: _____ in.			
Fuel: <input type="checkbox"/> natural gas <input type="checkbox"/> propane <input type="checkbox"/> CARB diesel <input type="checkbox"/> other, specify _____			
Number and rating of burners: _____		Operating temperature of combustion chamber: _____	
Inlet temperature: _____ °F		Pressure drop across unit: _____ inches H ₂ O	
Gas flow rate: _____ SCFM			
Catalyst used: <input type="checkbox"/> , please describe: _____			
Heat exchanger used: <input type="checkbox"/> , please describe: _____			
Minimum Control efficiency: _____ % _____ ppmv _____ mg/m ³			
Describe method to monitor control efficiency: _____			

C. Condenser Units:

Flow diagram of emissions source and control unit: <input type="checkbox"/> included		Manufacturer Specifications/Guarantee: <input type="checkbox"/> included	
Manufacturer: _____		Model: _____	
Serial Number: _____		Heat exchange area: _____ ft ²	
Coolant flow rate: _____ gpm water air CARB diesel other, specify _____			
Gas flow rate: _____ scfm		Coolant temperature: inlet _____ °F outlet _____ °F	
Gas temperature: inlet _____ °F outlet _____ °F		Minimum Control efficiency: _____ % _____ ppmv _____ mg/m ³	
Describe method to monitor control efficiency: _____			

D. Electrostatic Precipitator Units:

Flow diagram of emissions source and control unit: <input type="checkbox"/> included		Manufacturer Specifications/Guarantee: <input type="checkbox"/> included	
Manufacturer: _____		Model: _____	
Serial Number: _____		Collecting electrode area: _____ ft ²	
Gas flow rate: _____ scfm			
Describe method to monitor control efficiency: _____			

E. Filter Units:

Flow diagram of emissions source and control unit: <input checked="" type="checkbox"/> included		Manufacturer Specifications/Guarantee: <input checked="" type="checkbox"/> included	
Manufacturer: DCL, Inc.		Model: CFM-770	
Serial Number: unknown		Filtering material: polyester w/ hydrophobic/oliophobic finish	
Filtering area: 770 square feet		Number and dimension of filters: 14 filters with 8" diameter and 26" length, total area of 770 square feet	
Cleaning method: <input type="checkbox"/> shaker <input type="checkbox"/> reverse air <input type="checkbox"/> pulse air <input checked="" type="checkbox"/> pulse jet <input type="checkbox"/> Other, specify: _____			
Gas flow rate: 3,000 (cfm) scfm			
Unit equipped with a manometer gauge? <input checked="" type="checkbox"/> yes <input type="checkbox"/> no		Manufacturer's specified pressure differential range: _____ inches H ₂ O	
Control efficiency: _____ % _____ ppmv _____ mg/m ³ <0.005 grains/dscf			
Describe method to monitor control efficiency: _____			

F. Scrubber Units:

Flow diagram of emissions source and control unit: <input type="checkbox"/> included		Manufacturer Specifications/Guarantee: <input type="checkbox"/> included	
Manufacturer:	Model:	Serial Number:	
Type of scrubber:			
<input type="checkbox"/> high energy, gas stream pressure drop: _____ in. H ₂ O			
<input type="checkbox"/> packed: packing type _____ packing size _____ packing material height _____			
<input type="checkbox"/> spray: number of nozzles _____ nozzle pressure _____ PSIG			
<input type="checkbox"/> Other, specify: _____			
Flow type: <input checked="" type="checkbox"/> concurrent <input type="checkbox"/> countercurrent <input type="checkbox"/> crossflow			
Scrubber dimensions: length in direction of gas flow _____ in. cross sectional area _____ sq. in.			
Scrubbant: _____		Scrubbant flow rate: _____ scfm	
Control efficiency: _____ %		_____ ppmv _____ mg/m ³	
Describe method to monitor control efficiency:			

G. Other types:

Equipment description:		
Flow diagram of emissions source and control unit: <input type="checkbox"/> included		Manufacturer Specifications: <input type="checkbox"/> included
Manufacturer:	Model:	Serial Number:
Gas flow rate: _____ scfm		
Control efficiency: _____ % _____ ppmv _____ mg/m ³		
Describe method to monitor control efficiency:		

Section 4: Emissions Data

Emission Factor Basis (attach any source specified): <input checked="" type="checkbox"/> Manufacturer <input type="checkbox"/> Source Test <input type="checkbox"/> MDAQMD Default <input type="checkbox"/> USEPA AP-42				
<input type="checkbox"/> Other (please specify) _____				
Pollutant	Pre-Control Max. Emissions	Units	Post Control Max. Emissions	Units
NOx	_____	_____	_____	_____
NMHC	_____	_____	_____	_____
SOx	_____	_____	_____	_____
PM10	_____	_____	< 0.005 grains/dscf	_____
SOx	_____	_____	_____	_____

Section 5 Exhaust Stack Information:

Stack height above grade: 32 _____ ft. (overall height)	<input checked="" type="checkbox"/> vertical <input type="checkbox"/> horizontal
Stack diameter: _____	
Exhaust gas temperature: ambient _____ °F	Exhaust Flow Rate: 3000 _____ SCFM
Greatest height of nearby buildings: _____ ft.	

Section 6: Operation Information

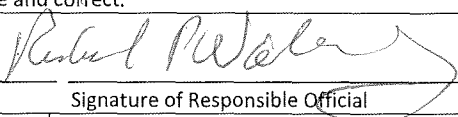
Facility Annual Throughput by Quarters (percent):	Expected Hours of Operation:
<input checked="" type="checkbox"/> Uniform OR _____ % Jan-Mar _____ % Apr-Jun	24 Hrs/Day 6 Days/Wk 52 Wk/Yr 7,440 Total Annual Hours
_____ % Jul-Sep _____ % Oct-Dec	

Section 7: Receptor Information

Distance (Feet) and direction to the property line of closest: 620 _____ Residence 2,255 _____ Business 3,475 _____ School _____
Name of Closest School (K-12) Riverside Preparatory School
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I hereby certify that all information contained herein is true and correct.			
Richard P. Walters Jr.	Plant Manager		8/9/17
Name of Responsible Official	Official Title	Signature of Responsible Official	Date Signed
Telephone Number: (760) 269-1183		Email: rwalters@calportland.com	

-For District Use only-

Application Number: MD1N20916	Invoice Number: 44672/MD7871	Permit Number: C012928	Company/Facility Number: 2239/3
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www.mdaqmd.ca.gov
Brad Poiriez
Executive Director

APPLICATION FOR AIR POLLUTION CONTROL EQUIPMENT ONLY

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Section 1: Facility/Owner Information

a. Permit To Be Issued To (Company Name): CalPortland Company		b. Federal Tax ID #: 95-0597220
c. Mailing/Billing Address (for above company name) P.O. Box 146, Oro Grande, CA 92368		
d. Facility or Business License Name (for equipment location): CalPortland Oro Grande Facility		
e. Facility Address - Location of Equipment (if same as for company, enter "Same"): 19409 National Trails Highway, Oro Grande, CA 92368		Facility UTM or Lat/Long: 34.608377, -117.335926
f. Contact Name/Title: Desirea Haggard	Email Address: dhaggard@calportland.com	Phone/Fax #: (760) 269-1183
General Nature of Business: cement manufacturing facility		
Type of Organization (check one):		
<input type="checkbox"/> Individual Owner <input type="checkbox"/> Partnership <input checked="" type="checkbox"/> Corporation <input type="checkbox"/> Utility <input type="checkbox"/> Local Agency <input type="checkbox"/> State Agency <input type="checkbox"/> Federal Agency		

Section 2: Nature of Application

Application is hereby made for Authority To Construct (ATC) and Permit To Operate (PTO) the following equipment: One baghouse attached to proposed spout/bin. See attached application package.	
Process Equipment Permit # served by proposed control: 613LS302, 613BK302	
Application is for:	For modification or change of owner:
<input checked="" type="checkbox"/> New Construction <input type="checkbox"/> Modification <input type="checkbox"/> Change of Owner	223900003 Current Permit Number
Do you claim Confidentiality of Data? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (attach explanation; specify which information provided is confidential)	

Section 3: Equipment Information – complete section A-G as applicable, each control unit requires a separate application

A. Adsorption Units:

Flow diagram of emissions source and control unit: <input type="checkbox"/> included	Manufacturer Specifications/Guarantee: <input type="checkbox"/> included
Manufacturer:	Model: Serial Number:
Adsorbent: <input type="checkbox"/> Activated Charcoal: type _____	<input type="checkbox"/> Other: specify _____
Adsorbate(s):	
Number of beds:	Weight of absorbent per bed:
Dimensions of bed: thickness: _____ surface area: _____	
Inlet temperature: _____ °F	Pressure drop across unit: _____ inches H ₂ O
Regeneration: <input type="checkbox"/> Replacement <input type="checkbox"/> Steam <input type="checkbox"/> Other, specify: _____	
Regeneration Method: <input type="checkbox"/> shut down <input type="checkbox"/> alternate use, specify: _____	<input type="checkbox"/> other, specify: _____
Minimum Control efficiency: _____ % _____ ppmv _____ mg/m ³	
Describe method to monitor control efficiency and breakthrough:	

South loadout spout
1012927

B. Afterburner Units:

Flow diagram of emissions source and control unit: <input type="checkbox"/> included		Manufacturer Specifications/Guarantee: <input type="checkbox"/> included	
Manufacturer:		Model:	
Serial Number:		Cross sectional area: _____ sq. in.	
Combustion chamber dimensions: length: _____ in.			
Fuel: <input type="checkbox"/> natural gas <input type="checkbox"/> propane <input type="checkbox"/> CARB diesel <input type="checkbox"/> other, specify _____			
Number and rating of burners:		Operating temperature of combustion chamber:	
Inlet temperature: _____ °F		Pressure drop across unit: _____ inches H ₂ O	
Gas flow rate: _____ SCFM			
Catalyst used: <input type="checkbox"/> , please describe:			
Heat exchanger used: <input type="checkbox"/> , please describe:			
Minimum Control efficiency: _____ % _____ ppmv _____ mg/m ³			
Describe method to monitor control efficiency:			

C. Condenser Units:

Flow diagram of emissions source and control unit: <input type="checkbox"/> included		Manufacturer Specifications/Guarantee: <input type="checkbox"/> included	
Manufacturer:		Model:	
Serial Number:		Heat exchange area: _____ ft ²	
Coolant flow rate: _____ gpm water air CARB diesel other, specify _____			
Gas flow rate: _____ scfm		Coolant temperature:	
inlet _____ °F outlet _____ °F		Gas temperature:	
inlet _____ °F outlet _____ °F		Minimum Control efficiency: _____ % _____ ppmv _____ mg/m ³	
Describe method to monitor control efficiency:			

D. Electrostatic Precipitator Units:

Flow diagram of emissions source and control unit: <input type="checkbox"/> included		Manufacturer Specifications/Guarantee: <input type="checkbox"/> included	
Manufacturer:		Model:	
Serial Number:		Collecting electrode area: _____ ft ²	
Gas flow rate: _____ scfm			
Describe method to monitor control efficiency:			

E. Filter Units:

Flow diagram of emissions source and control unit: <input checked="" type="checkbox"/> included		Manufacturer Specifications/Guarantee: <input checked="" type="checkbox"/> included	
Manufacturer: DCL, Inc.		Model: CFM-770	
Serial Number: unknown		Filtering area: 770 square feet	
Filtering material: polyester w/ hydrophobic/oliophobic finish			
Number and dimension of filters: 14 filters with 8" diameter and 26" length, total area of 770 square feet			
Cleaning method: <input type="checkbox"/> shaker <input type="checkbox"/> reverse air <input type="checkbox"/> pulse air <input checked="" type="checkbox"/> pulse jet <input type="checkbox"/> Other, specify: _____			
Gas flow rate: 3,000 (cfm) scfm			
Unit equipped with a manometer gauge? <input checked="" type="checkbox"/> yes <input type="checkbox"/> no		Manufacturer's specified pressure differential range:	
_____ inches H ₂ O		Control efficiency: _____ % _____ ppmv _____ mg/m ³ <0.005 grains/dscf	
Describe method to monitor control efficiency:			

F. Scrubber Units:

Flow diagram of emissions source and control unit: <input type="checkbox"/> included		Manufacturer Specifications/Guarantee: <input type="checkbox"/> included	
Manufacturer:	Model:	Serial Number:	
Type of scrubber:			
<input type="checkbox"/> high energy, gas stream pressure drop: _____ in. H ₂ O			
<input type="checkbox"/> packed: packing type _____ packing size _____ packing material height _____			
<input type="checkbox"/> spray: number of nozzles _____ nozzle pressure _____ PSIG			
<input type="checkbox"/> Other, specify: _____			
Flow type: <input type="checkbox"/> concurrent <input type="checkbox"/> countercurrent <input type="checkbox"/> crossflow			
Scrubber dimensions: length in direction of gas flow _____ in. cross sectional area _____ sq. in.			
Scrubbant: _____		Scrubbant flow rate: _____ scfm	
Control efficiency: _____ %		ppmv _____ mg/m ³	
Describe method to monitor control efficiency:			

G. Other types:

Equipment description:			
Flow diagram of emissions source and control unit: <input type="checkbox"/> included		Manufacturer Specifications: <input type="checkbox"/> included	
Manufacturer:	Model:	Serial Number:	
Gas flow rate: _____ scfm			
Control efficiency: _____ %		ppmv _____ mg/m ³	
Describe method to monitor control efficiency:			

Section 4: Emissions Data

Emission Factor Basis (attach any source specified): <input checked="" type="checkbox"/> Manufacturer <input type="checkbox"/> Source Test <input type="checkbox"/> MDAQMD Default <input type="checkbox"/> USEPA AP-42				
<input type="checkbox"/> Other (please specify) _____				
Pollutant	Pre-Control Max. Emissions	Units	Post Control Max. Emissions	Units
NOx	_____	_____	_____	_____
NMHC	_____	_____	_____	_____
SOx	_____	_____	_____	_____
PM10	_____	_____	< 0.005 grains/dscf	_____
SOx	_____	_____	_____	_____

Section 5 Exhaust Stack Information:

Stack height above grade: 36 _____ ft. (overall height)	<input checked="" type="checkbox"/> vertical <input type="checkbox"/> horizontal
Stack diameter: _____	
Exhaust gas temperature: ambient _____ °F	Exhaust Flow Rate: 3000 _____ SCFM
Greatest height of nearby buildings: _____ ft.	

Section 6: Operation Information

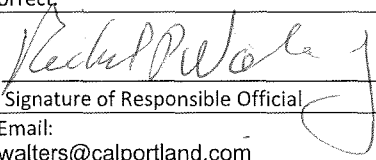
Facility Annual Throughput by Quarters (percent):	Expected Hours of Operation:
<input checked="" type="checkbox"/> Uniform OR _____ % Jan-Mar _____ % Apr-Jun	24 Hrs/Day 6 Days/Wk 52 Wk/Yr 7,488 Total Annual Hours
_____ % Jul-Sep _____ % Oct-Dec	

Section 7: Receptor Information

Distance (Feet) and direction to the property line of closest: 620 _____ Residence 2,255 _____ Business 3,475 _____ School _____
Name of Closest School (K-12) Riverside Preparatory School
<i>If the proposed ICE operates within 1,000 feet of a school site and operation results in the emission of hazardous air pollutants, a public notice will be required at the expense of the applicant (CH&S §42301.6)</i>

*Please note, District Staff may contact you for further information. Failure to provide additional information as requested in a timely manner may result in delays in the processing of this permit application.

Section 8: Certification

I hereby certify that all information contained herein is true and correct.			
Richard P. Walters Jr.	Plant Manager		8/9/17
Name of Responsible Official	Official Title	Signature of Responsible Official	Date Signed
Telephone Number: (760) 269-1183	Email: rwalters@calportland.com		
-For District Use only-			
Application Number: MD 122097	Invoice Number: 44672/MD7871	Permit Number: C012927	Company/Facility Number: 2239/3

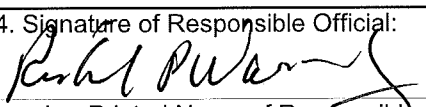
MOJAVE DESERT AIR QUALITY MANAGEMENT DISTRICT
 14306 Park Avenue, Victorville, CA 92392-2310
 (760) 245-1661 Facsimile: (760) 245-2022

www.mdaqmd.ca.gov
Brad Poiriez
 Executive Director

APPLICATION FOR AUTHORITY TO CONSTRUCT AND PERMIT TO OPERATE

Page 1 of 2: please type or print

REMIT \$269.00 WITH THIS DOCUMENT (\$153.00 FOR CHANGE OF OWNER)

1. Permit To Be Issued To (company name to receive permit): CalPortland Company		1a. Federal Tax ID No.: 95-0597220
2. Mailing/Billing Address (for above company name): P.O. Box 146, Oro Grande, CA 92368		
3. Facility or Business License Name (for equipment location): CalPortland Oro Grande Facility		
4. Facility Address - Location of Equipment (if same as for company, enter "Same"): 19409 National Trails Hwy, Oro Grande, CA 92368		Location UTM or Lat/Long:
5. Contact Name/Title: Desirea Haggard	Email Address: dhaggard@calportland.com	Phone/Fax Nos.: (760)269-1135
6. Application is hereby made for Authority To Construct (ATC) and Permit To Operate (PTO) the following equipment: Air Pollution Control Equipment, if any (note that most APCE require a separate application):		
7. Application is for: <input checked="" type="checkbox"/> New Construction <input checked="" type="checkbox"/> Modification* <input type="checkbox"/> Change of Owner*		For modification or change of owner: *Current Permit Number: <u>B000161</u>
8. Type of Organization (check one): <input type="checkbox"/> Individual Owner <input type="checkbox"/> Partnership <input checked="" type="checkbox"/> Corporation <input type="checkbox"/> Utility <input type="checkbox"/> Local Agency <input type="checkbox"/> State Agency <input type="checkbox"/> Federal Agency		
9. General Nature of Business: Cement manufacturing facility	Principal Product: Cement	SIC Code (if known): 3241
10. Distances (feet and direction to closest): _____ Fenceline _____ Residence _____ Business _____ School		
11. Facility Annual Throughput by Quarters (percent): 25 % 25 % 25 % 25 % Jan-Mar Apr-Jun Jul-Sep Oct-Dec		12. Expected Facility Operating Hours: _____ Hrs/Day _____ Days/Wk _____ Wks/Yr _____ Total Hrs/Yr
13. Do you claim Confidentiality of Data (if yes, state nature of data on reverse in Remarks)? <input type="checkbox"/> Yes <input type="checkbox"/> No		
14. Signature of Responsible Official: 		Official Title: Plant Manager
Typed or Printed Name of Responsible Official: Richard P. Walters Jr.		Phone Number: (760) 269-1183 Date Signed: 12/7/17
- For District Use Only -		
Application Number: Paid PCR	Invoice Number: 45319/MD8352	Permit Number: 2239/3

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MDAQMD
DEC 11 PM 12:19

B000161 Bulk truck loadout

MOJAVE DESERT AIR QUALITY MANAGEMENT DISTRICT

14306 Park Avenue, Victorville, CA 92392-2310
 (760) 245-1661 Facsimile: (760) 245-2022

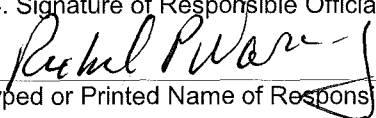
www.mdaqmd.ca.gov

Brad Poiriez
 Executive Director

APPLICATION FOR AUTHORITY TO CONSTRUCT AND PERMIT TO OPERATE

Page 1 of 2: please type or print

REMIT \$269.00 WITH THIS DOCUMENT (\$153.00 FOR CHANGE OF OWNER)

1. Permit To Be Issued To (company name to receive permit): CalPortland Company		1a. Federal Tax ID No.: 95-0597220
2. Mailing/Billing Address (for above company name): P.O. Box 146, Oro Grande, CA 92368		
3. Facility or Business License Name (for equipment location): CalPortland Oro Grande Facility		
4. Facility Address - Location of Equipment (if same as for company, enter "Same"): 19409 National Trails Hwy, Oro Grande, CA 92368		Location UTM or Lat/Long
5. Contact Name/Title: Desirea Haggard	Email Address: dhaggard@calportland.com	Phone/Fax Nos.: (760)269-1135
6. Application is hereby made for Authority To Construct (ATC) and Permit To Operate (PTO) the following equipment: Air Pollution Control Equipment, if any (note that most APCE require a separate application):		
7. Application is for: <input type="checkbox"/> New Construction <input checked="" type="checkbox"/> Modification* <input type="checkbox"/> Change of Owner*		For modification or change of owner: *Current Permit Number: T001753
8. Type of Organization (check one): <input type="checkbox"/> Individual Owner <input type="checkbox"/> Partnership <input checked="" type="checkbox"/> Corporation <input type="checkbox"/> Utility <input type="checkbox"/> Local Agency <input type="checkbox"/> State Agency <input type="checkbox"/> Federal Agency		
9. General Nature of Business: Cement manufacturing facility	Principal Product: Cement	SIC Code (if known): 3241
10. Distances (feet and direction to closest): _____ Fenceline _____ Residence _____ Business _____ School		
11. Facility Annual Throughput by Quarters (percent): 25 % 25 % 25 % 25 % Jan-Mar Apr-Jun Jul-Sep Oct-Dec		12. Expected Facility Operating Hours: _____ Hrs/Day _____ Days/Wk _____ Wks/Yr _____ Total Hrs/Yr
13. Do you claim Confidentiality of Data (if yes, state nature of data on reverse in Remarks)? <input type="checkbox"/> Yes <input type="checkbox"/> No		
14. Signature of Responsible Official: 		Official Title: Plant Manager
Typed or Printed Name of Responsible Official: Richard P. Walters Jr.		Phone Number: (760) 269-1183 Date Signed: 12/7/17
- For District Use Only -		
Application Number: Paid PCR	Invoice Number: 45320/MD8353	Permit Number: 2239/3 Company/Facility Number:

RECEIVED
 MDAQMD
 17 DEC 11 PM 12:19

Cement silo

**MOJAVE DESERT AIR QUALITY MANAGEMENT DISTRICT
GENERAL APPLICATION, continued**

Page 2 of 2: please type or print

15. Stack Emissions Information:

<u>Stack No.</u>	<u>Stack Height</u>	<u>Stack Diameter</u>	<u>Exhaust Temp</u>	<u>Exhaust Flow Rate</u>	<u>Exhaust Velocity</u>
1	_____	_____	_____	_____	_____
2	_____	_____	_____	_____	_____
3	_____	_____	_____	_____	_____

(list additional stacks on a separate sheet)

Stack Height is the distance above ground level to discharge point (feet)
 Stack Diameter is the diameter (or equivalent circular diameter) of discharge point (nearest tenth foot)
 If using cross-sectional area (A in square feet), equivalent diameter is $D = (1.273A)^{0.5}$
 Exhaust Temp in degrees F, actual or estimated to nearest 50 deg F
 Exhaust Flow Rate at discharge point in actual cubic feet per minute (ACFM)
 Exhaust Velocity in feet per second, design or measured

16. Remarks (basis for confidentiality of data, process description, modification description, etc.):

If you wish to specify process information as proprietary or confidential, space is provided for this purpose.
 The kinds and rates of emissions may not be held confidential; emissions are subject to public disclosure.

CalPortland Oro Grande
Federal Operating Permit #223900003

Authority to Construct (ATC) Application
August 7, 2017

APPENDIX C

MANUFACTURER SPECIFICATIONS



**Sales, Research and
Development**

Phone # (231) 547-5600
1-800-748-0563 ext. 3140
Fax # (231) 547-3343

Dust Control and Loading Systems, Inc.

08660 Ance Rd.
Charlevoix, Michigan 49720

**Engineering and
Manufacturing Facility**

Phone #. (231) 547-3344
Fax # (231) 547-5832
Web: www.dclinc.com

May 31, 2017

Jack Hompland
CalPortland Company
2025 E. Financial Way
Glendora, CA 91741
PH: 626-852-6256
Mobile: 626-733-7772
jhompland@calportland.com

SUBJECT: DCL Inc. Proposal no. 1705523

PROJECT: Cardinal Scale Upgrade

Jack,

Enclosed please find our equipment proposal and specifications in reference to your inquiry for silo fluidization, conveying and loading equipment based on handling aerated Portland cement with a bulk density of 65PCF @ 400TPH.

Estimated delivery schedule is (2-3) weeks for approval drawings with the equipment shipping (10-12) weeks after return of approval drawings. Customer has two weeks for review and return of approved drawings. Delays returning drawings may extend the shipping schedule. Delivery schedules are based at the time of quotation and may vary depending on when the order is placed.

Please feel free to contact me if you have any questions or further requirements regarding this proposal.

Sincerely,
Joe Left
DCL Inc., Technical Sales
jleft@dclinc.com



CALPORTLAND CO
PROP#1705523
5/31/2017
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Item 1 - DCL MODEL FBB-16 FLUIDIZED BIN BOTTOM
Qty. (1)

ESTIMATED NET WEIGHT: 16,000 lbs.

FLUIDIZED AREA: 16 ft. diameter / 201 square feet

DISCHARGE SIZE: 16 in. square, side

AIR CHAMBER CONSTRUCTION: Mild steel

MOUNTING FLANGE: 1/2 x 4 x 6 rolled angle

FLUIDIZATION MEDIA: Needled Polyester with carbon steel mesh

MEDIA SUPPORT: 1/8" x 1" bar grating, 1" centers

AERATION CONNECTION: (4) 3 in. flanged

BALANCE VALVES: (4) 3 in. manually operated butterfly valves to adjust flow to individual sections

AIR HEADER: 6" Sch. 40 pipe with (1) inlet and (4) outlets with hoses and clamps

AERATION REQUIREMENT: 1000 CFM @ 5 PSI

PAINT: Power tool cleaned, rust inhibitive primer and industrial enamel finish

Price for one (1) Fluidized Bin Bottom as described [REDACTED]

Preferred Customer Price for one (1) Fluidized Bin Bottom as described [REDACTED]

Item 1a-Positive Displacement Blower: To provide fluidization air to silo bin bottom. 1000 SCFM @ 5 PSI, 40 HP, 230/460 VAC / 3 PH / 60 HZ Premium Efficiency TEFC motor complete with elevated structural steel base, V-belt drive set and guard, inlet filter/silencer, discharge silencer with flex connector, pressure relief valve and gauge.

Price for one (1) Blower as described: [REDACTED]

Preferred Customer Price for one (1) Blower as described: [REDACTED]



CALPORTLAND CO
PROP#1705523
5/31/2017
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Item 2 - DCL MODEL RTVA-16 ROTARY THROTTLE FLOW VALVE
Qty. (1)

WEIGHT: 460 lbs.

VALVE INLET/OUTLET: 16 in. square

MEDIA: 3/16 in. polyester

VALVE CONSTRUCTION: 3/16 in. thick mild steel

FLANGES: 1/4 in. thick mild steel

FACE TO FACE LENGTH: 26.88 in

BLADE MATERIAL (DRUM): 1/4 in. thick 200 BHN AR steel

BLADE OPERATOR: manual handwheel through a right angle gear box

BLADE SEALS: Polyester/neoprene laminate replaceable cartridge

AIR CHAMBER: To match fluidized conveyor

AIR INLET: (1) 2 in., NPT

BALANCE VALVE: Manually actuated balance valve, one (1) provided

PAINT: Power tool cleaned, rust inhibitive primer and industrial enamel finish

Price for one (1) Valve as described: [REDACTED]

Preferred Customer Price for one (1) Valve as described [REDACTED]



CALPORTLAND CO

PROP#1705523

5/31/2017

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Item 3 - DCL MODEL RTVA-16 ROTARY THROTTLE FLOW VALVE

Qty. (3)

WEIGHT: 460 lbs.

VALVE INLET/OUTLET: 16 in. square

MEDIA: 3/16 in. polyester

VALVE CONSTRUCTION: 3/16 in. thick mild steel

FLANGES: 1/4 in. thick mild steel

FACE TO FACE LENGTH: 26.88 in

BLADE MATERIAL (DRUM): 1/4 in. thick 200 BHN AR steel

BLADE OPERATOR (OPEN/CLOSE/DRIBBLE): 5" diameter bore air cylinder solenoid positioning package inclusive of a two station manifold with two (2) 4-way, 2-position, spring return, solenoid operated valves pre-piped to a pilot operated check valve which is pre-piped to the cylinder. The pilot operated check valve provides positive and repeatable cylinder positioning. A junction box with position control module provide DCL prewire termination points for solenoids and three (3) reed limit switches provided. Solenoid package is rated for NEMA 4

BLADE SEALS: Polyester/neoprene laminate replaceable cartridge

AIR CHAMBER: To match fluidized conveyor

AIR INLET: (1) 2 in., NPT

BALANCE VALVE: Manually actuated balance valve, one (1) provided

PAINT: Power tool cleaned, rust inhibitive primer and industrial enamel finish

Price for three (3) Valves as described: [REDACTED]

Preferred Customer Price for three (3) Valves as described: [REDACTED]

BLADE OPERATOR: 5 in. diameter bore air cylinder with 4-Way, 2-Position single coil solenoid valve (fail closed under loss of electrical power), 120 Volt, 60 Hertz, NEMA 4

POSITION LIMIT SWITCHES: two (2) magnetic REED, full open/full close limit switches, 120 Volt, 60 Hertz, NEMA 4

Preferred Customer Price deduct per valve: [REDACTED]



CALPORTLAND CO

PROP#1705523

5/31/2017

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Item 4 - DCL MODEL RTVA-16 ROTARY THROTTLE FLOW VALVE

Qty. (2)

WEIGHT: 460 lbs.

VALVE INLET/OUTLET: 16 in. square

MEDIA: 3/16 in. polyester

VALVE CONSTRUCTION: 3/16 in. thick mild steel

FLANGES: 1/4 in. thick mild steel

FACE TO FACE LENGTH: 26.88 in

BLADE MATERIAL (DRUM): 1/4 in. thick 200 BHN AR steel

LINERAR POSITIONABLE BLADE OPERATOR: 5" diameter bore air cylinder with double acting pneumatic linear actuator complete with linear transducer positioning package (gate positioned from customer supplied 4-20ma input signal), NEMA 4. Positioning package 4-20 ma output module, (gate sends a 4-20 ma feedback signal to customer controls). Package inclusive of a two station manifold with two (2) 4-way, 2-position, spring return, solenoid operated valves pre-piped to a pilot operated check valve which is pre-piped to the cylinder.

BLADE SEALS: Polyester/neoprene laminate replaceable cartridge

AIR CHAMBER: To match fluidized conveyor

AIR INLET: (1) 2 in., NPT

BALANCE VALVE: Manually actuated balance valve, one (1) provided

PAINT: Power tool cleaned, rust inhibitive primer and industrial enamel finish

Price for two (2) Valves as described: [REDACTED]

Preferred Customer Price for two (2) Valves as described: [REDACTED]



CALPORTLAND CO

PROP#1705523

5/31/2017

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Item 5 - DCL MODEL FC16- FLUIDIZED CONVEYOR

Qty. (1)

FLUIDIZING AIR REQUIREMENT: 146 CFM

ANGLE OF DECLINATION: 8° degrees

OVERALL LENGTH: 5 ft. – 8 1/4 in.

STANDARD SECTION LENGTH: 10 ft.

WEIGHT PER FT: 44 lbs.

PRODUCT CHAMBER CONSTRUCTION: 11 ga. mild steel

AIR CHAMBER CONSTRUCTION: 11 ga. mild steel

FLANGES: 1/4 in. plate

MAXIMUM SPAN BETWEEN SUPPORTS: 20 ft.

FLUIDIZATION MEDIA: ¼ in. needled polyester

MEDIA SUPPORT: 1/8in. X 1in. bar grating, 1in. centers

PRODUCT INLET: (1)16 in. square, end

PRODUCT DISCHARGE: 16 in. square

TOP INSPECTION HATCHES: One (1) provided, gasketed quick release

BOTTOM INSPECTION HATCHES: One (1) provided, gasketed bolted

AIR INLET: (1) 2 in., Flanged

BALANCE VALVE: Manually actuated balance valve, one (1) provided for each air inlet

VENT CONNECTION: None

TURN BOX: Mild Steel with one inlet, and one outlet. Includes top and bottom inspection hatches; construction as described above and (1) 2" air inlet with manually actuated balance valve.

FINISH: Exterior Surfaces: power tool cleaned, rust inhibitive primer and industrial enamel finish.

Interior Surfaces: power tool cleaned, rust inhibitive primer only

Price for one (1) fluidized conveyor as described: [REDACTED]

Preferred Customer Price for one (1) fluidized conveyor as described: [REDACTED]

Item 5a- Centrifugal Pressure Blower: To provide fluidization air to air slides 400 SCFM @ 29" w.g Fan SP @ 3500 RPM, 5 HP, 230.460 VAC / 3 PH / 60 Premium Efficiency motor complete with intake filter/silencer and rain hood.

Price for one (1) Aeration fan as described: [REDACTED]

Preferred Customer Price for one (1) Aeration fan as described: [REDACTED]



CALPORTLAND CO

PROP#1705523

5/31/2017

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Item 6 - DCL MODEL FC16- FLUIDIZED CONVEYOR

Qty. (1)

FLUIDIZING AIR REQUIREMENT: 213 CFM

ANGLE OF DECLINATION: 8° degrees

OVERALL LENGTH: 13 ft. – 11 1/4 in.

STANDARD SECTION LENGTH: 10 ft.

WEIGHT PER FT: 44 lbs.

PRODUCT CHAMBER CONSTRUCTION: 11 ga. mild steel

AIR CHAMBER CONSTRUCTION: 11 ga. mild steel

FLANGES: 1/4 in. plate

MAXIMUM SPAN BETWEEN SUPPORTS: 20 ft.

FLUIDIZATION MEDIA: 1/4 in. needled polyester

MEDIA SUPPORT: 1/8in. X 1in. bar grating, 1in. centers

PRODUCT INLET: (1)16 in. square, end

PRODUCT DISCHARGE: 16 in. square, end

TOP INSPECTION HATCHES: Two (2) provided, gasketed quick release

BOTTOM INSPECTION HATCHES: Two (2) provided, gasketed bolted

AIR INLET: (1) 3 in., Flanged

BALANCE VALVE: Manually actuated balance valve, one (1) provided for each air inlet

VENT CONNECTION: None

TURN BOX: Mild Steel with two inlets, and two outlets. Includes top and bottom inspection hatches; construction as described above and (1) 2" air inlet with manually actuated balance valve. Inlet from silo 22 will be provided with a caulked and bolted blank.

FINISH: Exterior Surfaces: power tool cleaned, rust inhibitive primer and industrial enamel finish.

Interior Surfaces: power tool cleaned, rust inhibitive primer only

Price for one (1) fluidized conveyor as described: [REDACTED]

Preferred Customer Price for one (1) fluidized conveyor as described: [REDACTED]



CALPORTLAND CO

PROP#1705523

5/31/2017

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Item 7 - DCL MODEL FC16- FLUIDIZED CONVEYOR

Qty. (1)

FLUIDIZING AIR REQUIREMENT: 400 CFM

ANGLE OF DECLINATION: 8° degrees

OVERALL LENGTH: 22 ft. - 9 1/4 in.

STANDARD SECTION LENGTH: 10 ft.

WEIGHT PER FT: 44 lbs.

PRODUCT CHAMBER CONSTRUCTION: 11 ga. mild steel

AIR CHAMBER CONSTRUCTION: 11 ga. mild steel

FLANGES: 1/4 in. plate

MAXIMUM SPAN BETWEEN SUPPORTS: 20 ft.

FLUIDIZATION MEDIA: 1/4 in. needled polyester

MEDIA SUPPORT: 1/8in. X 1in. bar grating, 1in. centers

PRODUCT INLET: (1)16 in. square, end

PRODUCT DISCHARGE: 16 in., vent through drop box

TOP INSPECTION HATCHES: Two (2) provided, gasketed quick release

BOTTOM INSPECTION HATCHES: Two (2) provided, gasketed bolted

AIR INLET: (2) 3 in., Flanged

BALANCE VALVE: Manually actuated balance valve, one (1) provided for each air inlet

VENT CONNECTION: None

FINISH: Exterior Surfaces: power tool cleaned, rust inhibitive primer and industrial enamel finish.

Interior Surfaces: power tool cleaned, rust inhibitive primer only

Price for one (1) fluidized conveyor as described: [REDACTED]

Preferred Customer Price for one (1) fluidized conveyor as described: [REDACTED]

Item 7a- Centrifugal Pressure Blower: To provide fluidization air to air slide 400 SCFM @ 29" w.g Fan SP @ 3500 RPM, 5 HP, 230/460 VAC / 3 PH / 60 Premium Efficiency motor complete with intake filter/silencer and rain hood.

Price for one (1) Aeration fan as described: [REDACTED]

Preferred Customer Price for one (1) Aeration fan as described: [REDACTED]



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Item 8 - DCL MODEL CFM-770 PULSE JET COMPACT FILTER MODULE

Qty. (2)

NET WEIGHT: 2,029 lbs. including fan

OVERALL HEIGHT: 54.5 in.

PRODUCT INLET: 24 in. dia. constructed of. 215/235 BHN AR Steel

CLOTH AREA: 770 square ft.

AIR WITHDRAWAL: 3000 CFM

AIR TO CLOTH RATIO: 3.8:1

FILTER ACCESS: Top removal design

FILTER MEDIA: (14) 8" dia. X 26" spun bonded polyester cartridges with hydrophobic/oliophobic finish

FILTER CLEANING SYSTEM: Pulse jet with pre-wired solenoid valves

PULSE TIMER: Solid state 0-30 second off delay adjustment, 50-500 milliseconds on time adjustment with minihelic pressure differential gauge face mounted in a NEMA 4 enclosure.

COMPRESSED AIR REQUIREMENT: 20 CFM @ 80 PSI

COLLECTOR HOUSING: Mild steel

CLEAN AIR PLENUM CONSTRUCTION: Mild steel

WITHDRAWAL FAN: 3000CFM @ 8" W.C. w/ 15 HP, Premium Efficiency motor, complete with flanged inlet, flanged outlet damper, drain weather cover, belt and shaft guards. Fan is provided with support and table for direct mounting (no connection ducting) to collector housing.

PAINT: Power tool cleaned, rust inhibitive primer and industrial enamel finish

Price for two (2) Compact Filter Modules with Fans as described: [REDACTED]

Preferred Customer Price for two (2) Compact Filter Modules with Fans as described: [REDACTED]

FILTER/REGULATOR: Provides excellent water removal efficiency and high flow pressure regulation. Includes, 40 micron filter, 0-125 psi range, metal bowl guard, and pressure indication gauge.

Preferred Customer Price: [REDACTED]

PULSE CONTROL: Dwyer DCT1000 Timer, Solid state 0-30 second cycle adjustment w/ Dwyer DCP100A pressure differential module in a NEMA 4X housing with view port.

Preferred Customer Price: [REDACTED]

REVISION SUMMARY

Revision	Date	Description
0	4/17/17	Original
1	5/2/17	Revised for increased airflow
2	7/18/17	Changed bags to 6" diameter and lengthened. Provided bin vent style

B STYLE BIN VENT OPERATION

In a typical application, dust-laden air is introduced into the bin vent from below. An optional induced draft (ID) fan draws air and light dust through the housing. Dust collects on the filter media and a dust cake builds. The filter media is sealed to the tubesheet, which separates the clean air plenum from the filter housing. The clean air exits the plenum. Periodically, or as pressure drop increases, the pulse jet cleaning system is activated. The pulse of clean and dry compressed air separates the dust cake from the filter media. The dust cake falls into the silo or bin below. The cleaning cycle reduces the pressure drop across the filters so that the fan can pull more dirty air into the bin vent. When the cleaning cycle fails to reduce the pressure drop, it is time to replace the filters.

Filters can be top removal (clean access) or side removal (dirty access). Top removal is more popular because bag changes are safer with limited dust exposure for the operator. Side removal is typically required on smaller units where standing on a small tubesheet can be unsafe. Other filter options have to do with the bag diameter and length. We recommend selecting a filter size that is common to your site so that stock filters and cages can be shared across baghouses. The operating temperature, air chemistry, and particle size will affect the type of fabric that we recommend. Other design parameters are considered to select the most effective equipment for your application.

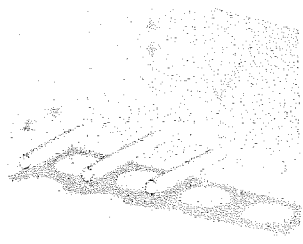
DESIGN PARAMETERS

Destination	Oro Grande, California
Location	Outdoors
Construction	Dust Tight
Structural Design Conditions (Based on equipment installed at grade)	90 MPH Wind / 40 PSF Snow Load (IBC)
	Zone D Seismic (UBC)
Operation	Not specified
Process Design Temperature (°F)	150 max
Process Design Pressure (" wg)	± 20
Application or Dust Source	Truck unloading
Type of Dust	Cement
Dust Properties	Not specified
Particle Size (µm)	Not specified
Product Bulk Density (lb _m / ft ³)	Not specified, assume 80
K _{st} (bar · m / sec) / P _{max} (bar _g) ¹	Not explosive
NEC Area Classification (NEC)	General
Process Gas	Air
Design Air Flow (Actual ft ³ / min)	15,000
Dust Collector Model	196(6)-12-20-TR-B
Total Filtration Area (ft ²)	3,773
Design Air-to-Cloth Ratio (ft / min)	3.98
Interstitial ² Velocity (ft / min)	299
Inlet Grain Load (grains / dry std ft ³)	Not specified, ≤ 5 assumed
Outlet Emission Limit (grains / dry std ft ³)	0.003
Input from Customer	Email

² Interstitial velocity is an important design parameter on hopper inlet dust collectors. It is the upward velocity of the air in the filter section.

EQUIPMENT DESCRIPTION

Each MikroPulsaire® dust collector will be furnished with standard construction as follows:

Model	196(6)-12-20-TR-B			
Reference Drawing	BW7177			
Bag and Cage Size	(196) 6" x 12' Nominal			
Bag and Cage Material	<ul style="list-style-type: none"> • 16 oz / yd² Polyester Felt with MikroTex finish to the outside • Carbon steel cage 			
Bag and Cage Construction	<ul style="list-style-type: none"> • Double Beaded Snap Ring (DBSR) Cuff for top load design • Rolled-flanged cage top with integral 6" venturi • (12) vertical 1/8" nominal wires and horizontal rings on 8" centers 			
Clean Air Plenum	<ul style="list-style-type: none"> • Min 12 ga carbon steel construction • Removable roof panels providing bag access • Perimeter handrail on roof with 1 1/2" square tube and toe plate • Exhaust flange orientation and size to be finalized at design approval stage 			
Tubesheet Assembly	<ul style="list-style-type: none"> • 7 ga carbon steel tubesheet stiffened to support live load of 40 lbs / ft² • Bolted between the plenum and housing sections 			
Housing	<ul style="list-style-type: none"> • Min 12 ga carbon steel with stiffeners • Bag grid • Bin mounting flange 			
Hopper	<ul style="list-style-type: none"> • N/A for bin vent 			
Support Structure	<ul style="list-style-type: none"> • N/A for bin vent 			
Access	<ul style="list-style-type: none"> • Raised header that places the compressed air header, pulse valves, and solenoid valves at the roof handrail • OSHA compliant ladder from bottom of mounting surface to service area • All ladders are equipped with a self-closing gate at the top 			
Painting		Surface Prep	(Coats) Paint	Color
	Collector Interior	None	None	-
	Collector Exterior	SSPC SP-2	(1) Primer / (1) Top Coat	Azure Blue
	Structure	SSPC SP-2	(1) Primer / (1) Top Coat	Azure Blue
	Safety Equipment	SSPC SP-2	(1) Primer / (1) Top Coat	Yellow
	Aux Equipment	Manufacturer's Standard		
MikroPulsaire® Cleaning Assembly	<ul style="list-style-type: none"> • Automatic self-cleaning system uses momentary bursts of compressed air through a specially designed venturi to provide efficient, thorough cleaning • Carbon steel blowtubes, header, and enclosed solenoid valves pre-piped through nylon tubing to MikroPul right angle diaphragm valves rated for 0 to 185 F environment • Removable blow tubes on TR and TRH models feature <u>MikroFix tool-less coupling</u> shown at right 			

Controller	<ul style="list-style-type: none"> MikroPulse 100T 10-Position Continuous Timer control rated for 32 to 131 F environment 					
Sensors	<ul style="list-style-type: none"> Magnehelic gage 					
Utilities	Electrical	hp	Voltage	Phase	Hertz	Notes
	Controller		120	1	60	NEMA 4 Enclosure
	Solenoids		120	1	60	NEMA 4 Enclosure
	Compressed Air					
23 DSCFM at 80 PSI _g for 6 pulses per minute						
Equipment Exclusions	<ul style="list-style-type: none"> Fan, to be mounted as base of dust collector Material handling equipment, such as airlock or screw Fire and explosion protection Insulation – We must be notified if unit is to be insulated in the field Motor starters and wiring Duct including dirty air, filter-to-fan, and return air or stack Air compressor and dryers 					

EQUIPMENT PRICING	Quantity	Unit Price	Total Price
Model 196(6)-12-20-TR-B	1		
DUCT PACKAGE			
<ul style="list-style-type: none"> A duct package can be provided upon request 			
SERVICES			
<ul style="list-style-type: none"> Installation, Supervision, Commissioning, and Training are available 			TBD
RECOMMENDED SPARE PARTS		Contact MikroPul Aftermarket at 800.892.7278 for spare parts	



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Item 9 - DCL MODEL HPD2X2 DUAL AXIS, INTERNALLY VENTED, SPOUT POSITIONER
Qty. (2)

NET WEIGHT: 3180 lbs.

OVERALL HEIGHT: 27"

HORIZONTAL TRAVEL: 2' x 2'

DRIVE: Two (2) heavy duty 60:1 worm gear reducers with 1 HP, 1800 RPM, 230/460V, TEFC motors and two (2) torque limiting slip clutches for gear reducer protection in the event of an end limit travel overrun.

DRIVE LINKAGE: Chain and sprocket

EXTERNAL HOPPER CONSTRUCTION: Mild steel

INTERNAL HOPPER CONSTRUCTION: 200 BHN AR steel

HOPPER SUPPORT: Surface hardened cam rolls on structural steel rails

SEALS: High density felt on a 304 stainless steel sealing surface

TRAVEL LIMIT SWITCH KIT: NEMA 4 proximity limit switches for end of travel indication

RETURN TO CENTER SWITCH KIT: NEMA 4 proximity limit switches for return to center position.

PRE-WIRING: Electrical component and motor wires from both the positioner and spout are pre-wired to a numbered terminal strip inside a NEMA 4 junction box.

PAINT: Power tool cleaned, Solvent wash down, Primer: Sherwin Williams Kem flash Primer (grey) E61A45, manufacturers recommended mill thickness is (DFT 1.0-1.25)

Top Coat: Sherwin Williams Fast Production Enamel (ASA49 grey) F75, manufacturers recommended mill thickness is (DFT 1.0-1.5)

PACKAGING: Shipped completely assembled on skid

Price for two (2) Horizontal Positioners as described: [REDACTED]

Preferred Customer Price for two (2) Horizontal Positioners as described: [REDACTED]



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Item 10 – DCL UNIVERSAL BULK LOADING SPOUT MODEL UN800EV-4

Qty. (1)

NET WEIGHT: 740 lbs.

RETRACTED HEIGHT: 44.5 in.

VERTICAL TRAVEL: 4 ft.

INLET: 32 in. constructed from 215/235 BHN AR Steel

DUST OUTLET CONNECTION: N/A with integral filter modules

RECOMMENDED AIR WITHDRAWAL: 1800 - 3000CFM

DRIVE: Heavy duty, worm gear 60:1 with a 1 HP, 1800 RPM, TEFC, 230/460V, 3PH, 60HZ brake motor

UPPER & LOWER DRIVE LIMITS: NEMA 4 full up and combination full down / slack cable lever limit switches

PRE-WIRING: Electrical components (except motor) are pre-wired to a numbered terminal strip inside a NEMA 4 junction box.

INNER CONES: Urethane with 1/8" x 1" nylon cone harness

OUTER SLEEVE: Hypalon/Nylon with Aluminum inner and outer Support Rings

DISCHARGE: Carbon steel tapered to fit 19-30" dia. hatches; with Urethane self-sealing cone and collapsible Hypalon/Nylon sleeve and aluminum support rings complete with air vibrator,(requires 25CFM @ 80PSI), and solenoid mounted and plumbed. NOTE: 12" of travel is required to fully separate the sealing cone assy. after initial contact with vehicle hatch. Self-sealing discharge option adds 23" to spouts retracted height. Note: hatches larger than 30" dia. will require an optional adapter plate.

PAINT: Power tool cleaned/solvent wipe down, rust inhibitive primer and industrial enamel finish

PACKAGING: Shipped completely assembled on skid

Price for two (2) Loading Spouts as described: [REDACTED]

Preferred Customer Price for two (2) Loading Spouts as described: [REDACTED]

AUTOMATIC LEVEL SENSE: pneumatic probe with controller mounted in NEMA 4 enclosure

Preferred Customer Price: [REDACTED]

Appendix B Public Notice

Noticing Methods include the following, per District Rule 1302(D)(2)and(3):

- Published in newspapers of general circulation - *Riverside Press Enterprise* (Riverside County) and the *Daily Press* (San Bernardino County) on January 25, 2018.
- Mailed and/or emailed to MDAQMD contact list of persons requesting notice of actions (see the contact list following the Public Notice in this Appendix) on January 25, 2018.
- Posted on the MDAQMD Website at the following link: <http://www.mdaqmd.ca.gov/permitting/public-notices-advisories/public-notices-permitting-regulated-industry>

NOTICE of TITLE V PERMIT MODIFICATION

NOTICE IS HEREBY GIVEN THAT *CalPortland Company*, located within the Mojave Desert Air Quality Management District (MDAQMD) at 19409 National Trails Hwy, Oro Grande, has applied for a Preconstruction Review including Significant Modification of a Federal Operating Permit (FOP) pursuant to the provisions of MDAQMD Regulations XII and XIII, respectively. The applicant is a company engaged in Portland Cement Manufacturing. CalPortland operates under FOP Number 223900003 and is proposing modification to existing bulk cement truck loadout including addition of one new bulk truck loadout equipment.

REQUEST FOR COMMENTS: Interested persons are invited to submit written comments and/or other documents regarding the terms and conditions of the proposed Federal Operating Permit. If you submit written comments, you may also request a public hearing on the proposed Significant Modification of the FOP. To be considered, comments, documents and requests for public hearing must be submitted no later than 5:00 P.M. on February 24, 2018 to the MDAQMD, Attention: Chris Anderson at the address listed below.

RIGHT TO PETITION USEPA FOR RECONSIDERATION: The proposed Title V Permit is also subject to review and approval by USEPA. If USEPA has not objected to a proposed permit action and the District has not addressed a public comment in a satisfactory manner, the public may also petition the Administrator of USEPA at 1200 Pennsylvania Ave, N.W., Washington, D.C. 20460, within 60 days after the end of the 45-day USEPA review period, to reconsider the decision to not object to the permit action.

AVAILABILITY OF DOCUMENTS: The Proposed Federal Operating Permit as well as the application and other supporting documentation are available for review at the MDAQMD offices, 14306 Park Avenue, Victorville, CA 92392. Please contact Chris Anderson, Air Quality Engineer, at the above address or (760) 245-1661, x 1846 or at canderson@mdaqmd.ca.gov for additional questions pertaining to this action and/or corresponding documents.

Traducción en español esta disponible por solicitud. Por favor llame: (760) 245-1661 x1846

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mchsi
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Ridgecrest, CA 93555

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California Air Resources Board
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Planning Div Mgr, Clark Co Dept of Air Q and
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Environmental Manager
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Mr. John F. Espinoza
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Appendix C Emission Calculations

Cardinal Scale Truck Loadout Project										PM10 Emissions			
Emissions Unit	Equipment Description	Equipment Description	Control Device Type		Control Device Permit #	Control Device ID	DSCFM ¹	Grains/DSCFM*	Hours Operation	Lb/Hr	Lb/Day	lb/Yr	
Existing Cement Silo & Truck Loadout	T001753	Cement Silos 21 through 24, Process Group 611	Cement Silos 21-24	Baghouse		C007470	611BF040	10,000	0.01	8760	0.86	20.57	7508.57
	B000161	Bulk Truck Loadout; Station 4	Bulk Truck Loadout, Station 4	Baghouse		C001774	611BF202	1,650	0.01	8760	0.14	3.39	1238.91
											1.00	23.97	8747.49
Emissions Unit	Equipment Description	Equipment Description	Control Device Type	Application #	Control Device Permit #	Control Device ID	DSCFM ¹	Grains/DSCFM*	Hours Operation	Lb/Hr	Lb/Day	lb/Yr	
Proposed Modified Cement Silo & Additional Truck	B012929	Cardinal Scale Loadout Spout, 613LS301	Cardinal Scale Loadout		C012927	613BF301	3,000	0.005	8760	0.13	3.09	1126	
	B012929	Cardinal Loadout Spout, 613LS302	Cardinal Scale Loadout		C012928	613BF302	3,000	0.005	8760	0.13	3.09	1126	
	T001753	Silo 21	Cement Silos 21-24		C012923	611BF041	15,000	0.005	8760	0.6	15.43	5631	
											0.90	21.60	7884.00
										Proposed Emissions		7884.00	
										Historic Actual Emissions		0.00	
										Annual Emissions Change		Pounds 7884.00	
												Tons 3.94	

CalPortland Cardinal Scale Project PM PTE				
	lb/hr	lb/day	lb/yr	ton/yr
PM30	2.25	54.00	19710.00	9.86
PM10	0.90	21.60	7884.00	3.94
PM2.5	0.14	3.24	1182.60	0.59
PM Size and Chemical Speciation Profile for Concrete Batching – PM3431, Wenli Yang, ARB				

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