



# Puget Sound Clean Air Agency

Notice of  
Construction No. 12427

## HEREBY ISSUES AN ORDER OF APPROVAL TO CONSTRUCT, INSTALL, OR ESTABLISH

Registration No. 30473  
Date

Small parts hot dip spin galvanizing facility for zinc coating of steel and iron consisting of one 1 ton/hr 10'x3'x6' (1841 gallon) galvanizing kettle controlled by one 10,000 scfm dust collector, one permit exempt 11'x3'x6' hydrochloric acid solution pickling tank, and permit exempt zinc aluminum chloride fluxing, caustic surface prep and rinsing tanks and 2 MMBtu/hr natural gas-fired galvanizing furnace.

### OWNER

### INSTALLATION ADDRESS

**Seattle Galvanizing Co Inc.**  
**18520 67th Avenue NE,**  
**Arlington, 98223**

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**18520 67th Avenue NE,**  
**Arlington, WA 98223**

### THIS ORDER IS ISSUED SUBJECT TO THE FOLLOWING RESTRICTIONS AND CONDITIONS

1. Approval is hereby granted as provided in Article 6 of Regulation I of the Puget Sound Clean Air Agency to the applicant to install or establish the equipment, device or process described hereon at the INSTALLATION ADDRESS in accordance with the plans and specifications on file in the Engineering Division of the Puget Sound Clean Air Agency.
2. This approval does not relieve the applicant or owner of any requirement of any other governmental agency.

### Specific Conditions:

3. The galvanizing hot dip kettle must at all times route kettle exhaust through an offset flanged slotted hood the length of the kettle with minimum fan setting corresponding to at least 10,000 scfm exhaust flow. Exhaust from the hood must be ducted continuously and vented to the dust collector.
4. All parts galvanized within the hot dip kettle must be fully contained within the kettle.
5. Flux solution may not be introduced directly into the hot dip kettle.
6. HCl pickling tanks must not contain HCl in greater than 12%
7. There shall be no visible emissions from the dust collector's exhaust stack except for uncombined water vapor.
8. There shall be no visible emissions beyond the galvanizing kettle building except for uncombined water vapor.
9. Total PM Emissions from the galvanizing hot dip kettle dust collector exhaust must not exceed 0.003 gr/dscf, as measured by EPA Method 5 and PSCAA 540. Compliance with this condition shall be demonstrated through filtration performance data. Maintenance and replacement procedures for the filters must be incorporated into the Operations and Maintenance (O&M) plan required by Agency Regulation I, Section 5.09(b).
10. Once each week during which the galvanizing hot dip kettle is operated, the owner or operator shall observe the galvanizing building perimeter during hot dip kettle operation for visible emissions. Once each week during operation of the galvanizing hot dip kettle, the owner or operator shall observe the dust collector's exhaust stack for visible emissions. If visible emissions are observed from either outside of the galvanizing building or the dust collector's exhaust stack, the owner operator shall stop operation of

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the galvanizing process, determine the cause of the problem including estimating the mean static pressure inside the hood, and take corrective actions. Galvanizing operations may not be resumed until the cause of the visible emissions has been determined and the problem corrected.

11. The hood and ducting system to the dust collector must be maintained free of holes, cracks, and any other structural deficiency that would reduce the capture and collection efficiency of the system. The owner or operator must at minimum conduct inspections every calendar year of the enclosure and ducting system to the dust collector for structural deficiencies. An inspection log must be kept to record any structural deficiency or corrective action taken by the owner or operator to correct the deficiency. Log records must include descriptions of observations, the date of the inspections and the date of corrective actions.
12. The dust collector must be equipped with an operable pressure gauge to indicate the pressure drop across the bags or filters. The operating pressure drop range shall be established based on manufacturer's recommendations, specifications or instruction, or good air pollution control practices to minimize emissions. The established pressure drop range minimum and maximum values must be clearly marked on or nearby the gauge and documented in the facility O&M plan. Pressure gauge components must be calibrated in accordance with manufacturer instructions and operating manuals. The owner or operator must keep a written copy of manufacturer instructions and operating manuals onsite.
13. The dust collector must always be operated within the established pressure drop range across the exhaust filter bank. Compliance demonstration with this requirement must at a minimum include weekly pressure drop inspections, on days that the hot dip kettle is in operation. If at any time the pressure drop deviates from the established pressure drop range, galvanizing operations shall discontinue after finishing the dip in progress. Galvanizing operations may not resume until the cause of the pressure drop deviation has been determined and the problem corrected. An inspection log must be kept to record any pressure drop deviation from the established pressure drop range and the corrective action taken by the owner or operator to correct the deviation. Log records must include the observed readings, descriptions of corrective actions, the date of the inspections, and the date of corrective actions.
14. Records to be maintained by this Order of Approval shall be kept onsite for at least two years from the date of generation, and made available to Puget Sound Clean Air Agency personnel upon request.
15. The owner or operator shall keep records of all inspections, monitoring, observations, readings and corrective actions as required by this Order of Approval. These records must include at least the following information:
  - a. Log records of enclosure and ducting system inspections required under Condition No. 11.
  - b. Log records of dust collector pressure drop inspections required under Condition No. 13.
  - c. Visible emissions observations required under Condition No. 10.
  - d. Any corrective actions conducted.

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## APPEAL RIGHTS

Pursuant to Puget Sound Clean Air Agency's Regulation I, Section 3.17 and RCW 43.21B.310, this Order may be appealed to the Pollution Control Hearings Board (PCHB). To appeal to the PCHB, a written notice of appeal must be filed with the PCHB and a copy served upon Puget Sound Clean Air Agency within 30 days of the date the applicant receives this Order.

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Madeline McFerran  
Reviewing Engineer

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John Dawson  
Engineering Manager

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