



# Project Profile

## **Client: NxEdge, Inc.**

NxEdge, Inc. is a specialty metal parts manufacturer for the semiconductor and glass coating industries located in Boise, Idaho. Thermal spray processes are used to coat steel parts with a variety of metal coatings from aluminum to zinc.

## **Project Scope:**

TORF Environmental Management was hired to assist NxEdge comply with Air Quality Permit to Construct requirements. NxEdge had expanded quickly into new production areas in response to customer needs.

The Idaho DEQ requested that NxEdge determine if the new emissions sources qualified for PTC exemption or needed to be permitted.

**Challenges:** The production area responsible for the majority of emissions coated metal parts in a multiple step, labor-intensive process involving parts preparation, coating and finishing steps. Material usage could not be directly linked to the emissions from each process step, hampering development of reasonable Permit conditions.

**Work Product:** TEM prepared an air emissions inventory and estimated emissions from all regulated processes. TEM determined that the facility did need to obtain a Permit to Construct and prepared an application report. During the application review process NxEdge developed plans for two additional production areas. TEM prepared and submitted addenda applications for the new sources, and by working with IDEQ, was successful in including the entire facility plus additions in the original PTC.

**Value Added:** TEM combined the results of its detailed engineering analyses into a computational process emission tool that NxEdge uses in tracking and reporting environmental regulatory compliance. TEM has been retained to provide oversight and as-needed support to help NxEdge remain in compliance with Permit conditions. The oversight includes calculating the PTC-required emission rates and regularly consulting with facility staff to discuss production changes and plans.