

CASE STUDY

EXPLOSION RELIEF



Virginia City Power Plant > St. Paul, VA

THE SCOPE

264,500 SF

of insulated
metal roof and
wall panels

138,600 SF

of single skin
metal siding

10,000 SF

of explosion
relief panels

THE CHALLENGE

CSM contracted with CB&I/Shaw to supply and install the roofing and siding on a new power plant in Virginia. The design called for an area of explosion relief panels due to the possibility of the stored coal combusting.

THE OUTCOME

The explosion relief system we engineered consisted of our metal siding attached to the structural girts with stainless steel cable. Special fasteners are designed to release after being exposed to the pressures during an explosion. Not only does this system prevent the metal panels from becoming projectiles, but it also relieves the pressure - thus minimizing the explosion.

