

# Ecolo Investigates... Foundries

## *The Problem*

At an aluminum foundry in Italy, slag (scum) from the production process is removed and placed in a storage building. Odors generated by slag (scum) during the storage are very intense and resulted in many complaints from the nearby residents.



## *The Solution*

Upon receiving the request to eliminate the odor problem, Ecolo Italy installed an Ecolo EP-60CF system, with an automatic water proportioner operating 30 spray nozzles in an area of 33.4m x 15.20m. Nozzles were fixed to the roof-supporting structure and configured in rows, approximately 6 meters apart.

Since ammonia and amines were the major contributors to the odorous emissions emanating from the slag, we advised the use of an Ecolo blend including an Ultimate A-320 formulation.

This Ecolo neutralizing blend is composed of 84.54% A-320, 9.66% #15, 3.86% #101, and 1.93% #9149. This blend diluted at 1:90 is sprayed for a duration of 15 - 20 seconds every minute, 12 hours a day (or 24 hours a day if odors are extreme).

## *Conclusion*

The Ecolo system (including both equipment and airSolution) effectively controls odors in this application, reducing the concentration of ammonia below TLV (see the table below) and significantly improves the situation in the area.

The treated area	Concentration of ammonia	
	Ecolo system off	Ecolo system on
Scum storage	<b>8.0</b> mg/m <sup>3</sup>	<b>4.5</b> mg/m <sup>3</sup>
Bridge over the ceiling	<b>20.0</b> mg/m <sup>3</sup>	<b>12.5</b> mg/m <sup>3</sup>

*Breathe Easier with Ecolo® Odor Control Systems*