

Kathleen Truesdell

From: Gregory Darwin <darwin@atmosphericdynamics.com>
Sent: Thursday, October 14, 2010 12:02 PM
To: Kathleen Truesdell
Cc: jim.mclucas@radback.com
Subject: FW: Spent SCR Catalyst

FYI

Gregory Darwin

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From: Jerry Deakle [mailto:jerry@deakle.us]
Sent: Thursday, October 14, 2010 6:46 AM
To: jim.mclucas@radback.com
Cc: 'Helner, Brian M.'
Subject: Spent SCR Catalyst

Hi Jim:

Brian Helner with Cormetech asked me to put together a quote to manage spent catalyst from your facility. Based on the catalyst specifications provided in his October 8th email, here is a quote at current prices to manage the spent catalyst from your Danville, CA facility according to current California EPA regulations:

Unit Cost	
Recycling/Disposal Cal-Haz Spent Catalyst Module	\$400 / ea.
Transportation - 40,000 max / load	\$1250 / load
Project management permitting & documentation	\$600
Total Estimated Charges	
Recycling/Disposal 24 Spent SCR Modules	\$9,600
Freight - 2 loads	\$2,500
Project management, permitting & documentation	\$600
Total	\$12,700

Please note that due to the Vanadium content, SCR catalyst are almost always hazardous under California rules. (Almost means that I have yet to manage a project where the catalyst were non-hazardous). While I would initially manage these devices as California Hazardous Waste to a permitted terminal in California, we would ultimately ship these devices out of state for decommissioning as non-hazardous, thus reducing your

liability, cost, and environmental footprint. Please let me know if you have questions and I'll be happy to provide more detail. This pricing is for current orders from Danville, CA. Pricing for future orders is subject change and should be confirmed prior to ordering.

You may want to know that I have been managing these types of projects for over twenty years, the last ten of which have been exclusively focused on spent SCR catalyst. My customers are from all over the US, but most have been in California and include firms such as Calpine, Algonquin Power, and GE. I can provide you with specific references if you like.

I hope this estimate meets your immediate requirement. When your project schedule firms up, please let me know and I will confirm pricing. Thanks for your interest, please let me know how I may assist further.

Regards,

Jerry Deakle
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