

MEMORANDUM

October 26, 1993

TO: Jim Maysilles - EPA/ISB

FROM: Emery Kong - RTI
Jim Turner - RTI

SUBJECT: Comparison of ESSCO Pickling Tank Emission Estimator Program with Tests at WCI Steel Pickling - NESHAP
EPA Contract 68-D1--118, WA 41
ESD Project 91/08B
RTI Project 5290-041

As directed by you and Al at our meeting on October 14, we have compared emission estimates from a PC program with measurements made at a pickling facility. The program was prepared by Neil Stone of ESCO Engineering and was compared with test results from the EPA testing performed at WCI Corporation.

The program tank emissions estimates bracketed values tested at WCI, as shown below:

Condition	Concentration at scrubber inlet, ppm HCl	Emissions at scrubber inlet, lb/hr HCl
Program estimate using WCI measured value of HCl in last pickling tank (4.7 %)	339	47.0
Program estimate using Weston measured value of HCl in last pickling tank (3.7 %)	220	30.6
Average of program estimates	280	38.8
Measured value	270	34
Program difference from test, percent	+ 4	+ 14