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REMARKS: Summary of latest MESOPUFF II  
modeling as per NPS request.  
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## SUMMARY OF MESOPUFF AIR QUALITY MODELING ANALYSES

AGRICO CHEMICAL COMPANY, POLK COUNTY, FLORIDA  
FILE NO. AC53-199112 AND PSD-FL-179

Option(1)	<u>Impact of All Increment Consuming Sources(2)</u>			<u>Impact of Emissions from Proposed Agrico Project</u>	
	24-Hr Periods with Impact >5 $\mu\text{g}/\text{m}^3$ (Julian Day, 1986)	Max 24-hour Impact ( $\mu\text{g}/\text{m}^3$ )	Number of Class I Receptors with impact >5 $\mu\text{g}/\text{m}^3$	24-hour Period (Julian Day, 1986)	Max 24-hour Impact at any Class I Receptor on Julian Day ( $\mu\text{g}/\text{m}^3$ )
<u>Gaussian Vertical Dispersion Algorithm</u>					
1	329	6.50	5	329	0.069
2	329	6.43	5	329	0.069

(1) Gaussian Dispersion Algorithm used for Vertical Dispersion

Option      Technical Model Options Employed

- 1      Dry Deposition  
2      Dry Deposition + Chemical Transformation

(2) 24-Hour  $\text{SO}_2$  Impact of all PSD increment consuming sources on Chassahowitzka Class I Area.