A2001-31 I-E-23

BACKGROUND INFORMATION DOCUMENT

HYPOTHETICAL NONATTAINMENT AREAS FOR PURPOSES OF UNDERSTANDING THE EPA PROPOSED RULE FOR IMPLEMENTING THE 8-HOUR OZONE NATIONAL AMBIENT AIR QUALITY STANDARD

ILLUSTRATIVE ANALYSIS BASED ON 1998-2000 DATA

U.S. Environmental Protection Agency
Office of Air and Radiation
Office of Air Quality Planning and Standards

-DRAFT--APRIL 2003

I. INTRODUCTION

The EPA is proposing in the Federal Register a rule to implement the 8-hour ozone national ambient air quality standard (NAAQS). The EPA is proposing this rule so that States may know which statutory requirements apply for purposes of developing State implementation plans (SIPs) under the Clean Air Act (CAA) to implement the 8-hour ozone NAAQS. The intended effect of the rule is to provide certainty to States regarding their planning obligations such that States may begin SIP development upon designation and classification of areas for the 8-hour standard.

That proposed rulemaking does not propose to establish attainment/nonattainment designations nor does it address the principles that will be considered in the designation process; EPA has already issued guidance on the principles that States should consider in making designation recommendations, and EPA will issue further guidance separate from this rulemaking if appropriate.

To evaluate the potential impact of the various classification options, EPA developed a set of 122 hypothetical nonattainment areas based on the counties that have monitors measuring violations of the 8-hour ozone standard for the 3-year period of 1998-2000.

It is important to note: The EPA's inclusion and grouping of counties into hypothetical nonattainment areas for purposes of the proposed implementation rule was done solely for the purpose of analyzing and illustrating how the various implementation options might apply to areas designated nonattainment for the 8-hour NAAOS. The creation of this set of hypothetical nonattainment areas, while based on actual air quality data from 1998-2000, is not intended to pre-judge the designation process that will occur over the next 9 months and that will be based on more recent air quality data from 2000-2002 or from 2001-2003, if available. Thus, State recommendations this summer and the final designations by EPA in April 2004, may include as nonattainment areas not on this list. Similarly, States may recommend and EPA may designate as attainment areas that are on this list. In addition, boundaries of nonattainment areas could be different than as defined in this list of hypothetical areas. Finally, this list does not account for areas that may receive treatment as Early Action Compact areas. This list should not be construed as a proposal by EPA of areas that should be designated nonattainment. Nor should States rely on this list when considering what recommendations to make regarding designations and boundaries for areas. Furthermore, States cannot not rely solely on the projections of future attainment contained or implied herein for final analyses necessary for attainment demonstrations in SIPs.

This document provides the list of the hypothetical areas, with design values from 1998-2000 data, projected design values based on several modeling analyses, and possible

classifications under the several options in EPA's Federal Register notice of proposed rulemaking.

The EPA is still in the process of updating this information using 2000-2002 data and will make that information available later.

II. TABLE 1: 8-HR O3 NAAQS HYPOTHETICAL NONATTAINMENT AREAS AND ANTICIPATED CLASSIFICATIONS

This table presents the hypothetical nonattainment areas, their 1-hour and 8-hour ozone design values for 1998-2000, their current 1-hour classification/designation status, and the classifications under the proposed options for classification of nonattainment areas under the 8-hour standard.

In the notice of proposed rulemaking, EPA is proposing two options for classifying areas.

Under option 1, all areas would be classified under subpart 2 of part D, Title I of the Clean Air Act, according to 8-hour ozone levels. As a result, all areas would be classified as marginal, moderate, serious, or severe or extreme (based on the most recent air quality data, no areas would fall in the "extreme" classification), and would be subject to control requirements specified in the Act for each classification.

Under Option 2, more than half the nonattainment areas would likely be regulated under subpart 1. All of these would be areas meeting the 1-hour ozone standard. The rest of the areas--those exceeding, and a few that may be meeting the 1-hour standard--would be classified under subpart 2 in the same manner as option 1. This option relies on an 8-hour nonattainment area's 1-hour ozone design value. If the area has a 1-hour design value equal to or greater than 0.121 ppm, it would be covered under subpart 2 and be classified using the area's 8-hour design value. If the area has a 1-hour design value less than 0.121, it would be covered under subpart 1.

We are also proposing an "incentive feature" that would allow areas to qualify for a lower classification under subpart 2 than their air quality would dictate if they demonstrate they will meet the 8-hour standard by the earlier attainment date of a lower classification. For example, an area that would be classified "moderate" could qualify for a "marginal" classification by showing it will attain within 3 years after designation instead of the 6 years for a moderate area. The incentive feature would allow the area in this example to avoid the mandatory control requirements of the moderate classification. The "incentive feature" is proposed for use in conjunction with either classification option.

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8-HR 03 NAAQS HYPOTHETICAL NONATTAINMENT AREAS AND CLASSIFICATIONS UNDER PROPOSED OPTIONS w/incentiv Subpart 1 Severe-15 Moderate Subpart 1 Subpart Subpart 1 Subpart 1 Subpart 1 Marginal Subpart Subpart 1 Opt 2 Classifications that change under incentive feature are in italics. Column definitions at bottom of table Severe-15 incentive Subpart 1 Subpart 1 Subpart 1 Subpart 1 Moderate Subpart 1 Subpart 1 Subpart 1 Subpart 1 H Marginal Opt 2 0/M w/incentive Marginal Moderate Severe-15 Marginal Marginal Marginal Moderate Marginal Marginal Marginal Ç Marginal Opt 1 Severe-15 incentive Moderate Moderate Marginal Moderate Marginal Marginal Moderate Marginal Marginal Marginal Marginal [Z Opt. 1 0/M (1998-2000 data) 1-hr Mainte-TABLE 1 nance** 1-hr Classifi-0.097 Marginal Moderate Marginal Serious 0.096 Serious cation 0.085 0.089 0.085 0.1210.094 0.0930.0880.087 0.0868-hr DV 1-hr DV 8 0.102860.0 0.1190.113 0.135 0.157 0.117 0.110 0.121 0.1090.111Beaumont-Port Arthur, TX Allentown-Bethlehem-Augusta-Aiken, GA-SC Austin-San Marcos, TX Benton Harbor, MI Baton Rouge, LA ⋖ Adams Co, MS Easton, PA-NJ Asheville, NC Albany, GA Altoona, PA Atlanta, GA Bell Co, KY NAME

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8-HR O3 NAAQS HYPOTHETICAL NONATTAINMENT AREAS AND CLASSIFICATIONS UNDER PROPOSED OPTIONS w/incentiv Subpart 1 Subpart 1 Subpart 1 Moderate Marginal Subpart 1 Marginal Subpart Subpart Subpart Opt 2 Classifications that change under incentive feature are in italics. Column definitions at bottom of table Moderate incentive Subpart 1 Subpart 1 Subpart 1 Moderate Subpart 1 Subpart Marginal Subpart Subpart Opt 2 0/M w/incentive Moderate Moderate Marginal Marginal Marginal Moderate Marginal Marginal Marginal Marginal Opt 1 Moderate incentive Moderate Moderate Moderate Marginal Moderate Marginal Marginal Marginal Marginal Opt. 1 0/M 1-hr Mainte-(1998-2000 data) Marginal RT Moderate TABLE 1 Moderate Ξ nance** Marginal 1-hr Classifi-0.102 Marginal Marginal 0.093 Serious cation 0.0890.089 0.092 0.094 0.0880.091060.0 8-hr DV 1-hr DV 0.110 0.118 0.1160.119 0.137 0.107 0.1100.099 0.132 0.121Biloxi-Gulfport-Pascagoula, Boston-Lawrence-Worcester Buffalo-Niagara Falls, NY Charlotte-Gastonia-Rock Canton-Massillon, OH Bowling Green, KY (E. MA), MA-NH Birmingham, AL K Charleston, WV Benzie Co, MI Cedar Co, MO Hill, NC-SC NAME

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Dayton-Springfield, OH	0.119	0.093		Moderate	Moderate	Marginal	Subpart 1	Subpart 1
Decatur, AL	0.102	0.086			Marginal	Marginal	Subpart 1	Subpart 1
Denver-Boulder-Greeley,	0.112	0.086		Sec 185A	Marginal	Marginal	Subpart 1	Subpart 1
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Detroit-Ann Arbor-Flint, MI	0.123	0.089		Moderate	Marginal	Marginal	Maroinal	Marginal
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KY	0.114	0.091		Marginal	Marginal	Marginal	Subpart 1	Subpart 1
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rayetteville, INC	0.117	0.093			Moderate	Marginal	Subpart 1	Subpart 1
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Goldsboro, NC	0.109	0.087			Marginal	Marginal	Subpart 1	Subnart 1
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Grand Kapids-Muskegon- Holland, MI	0.124	0.091		Moderate	Marginal	Marginal	Marginal	Marginal
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Oshkosh-Neenah-Door, WI	0.112	0.092	0.092 Marginal KT		Moderate	Moderate	Subpart 1	Subpart 1
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Greenorier Co, WV	0.108	0.089		Marginal	Marginal	Marginal	Subpart 1	Subpart 1
Greensboro-Winston Salem-	0.123	0.098		Moderate	Moderate	Marginal	Moderate	Marginal
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Greenville, NC	0.110	0.088			Marginal	Marginal	Subpart 1	Subnart 1
Greenville-Spartanburg- Anderson, SC	0.120	0.095		Marginal	Moderate	Marginal	Subpart 1	Subpart 1
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Harrisburg-Lebanon-	0.117	0.095	0.095 Marginal		Moderate	Maringal	Subpart 1	Subpart 1

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НО	611.0	70.0		Moderate	Moderate	Marginal	Subpart 1	Subpart 1
Pensacola, FL	0.118	0.094			Moderate	Moderate	Cubport 1	Cribinoset 1
Philadelphia-Wilmin-	0.147	0 106	Severe-15		Modorato	Medania	Surpait 1	Suopait 1
Atlantic Ci,PA-NJ-MD-DE					Moderate	Moderate	Moderate	Moderate
Phoenix-Mesa, AZ	0.114	0.087	Serious		Marginal	Maroinal	Subpart 1	Cubrout 1
Pittsburgh, PA	0.123	0.096		Moderate	Moderate	Moderate	Modern 1	Suopait i
					An Tanata	INTOUCIAIC	IVIOUCIAIC	Moderate

for the purpose of analyzing and illustrating how the various implementation options might apply to areas designated nonattainment for the 8-hour NAAQS. The construed as a proposal by EPA of areas that should be designated nonattainment. Nor should States rely on this list when considering what recommendations to NOTE: The EPA's inclusion and grouping of counties into hypothetical nonattainment areas for purposes of the proposed implementation rule was done solely State recommendations this summer and the final designations by EPA in April 2004, may include as nonattainment areas not on this list. Similarly, States may recommend and EPA may designate as attainment areas that are on this list. In addition, boundaries of nonattainment areas could be different than as defined in make regarding designations and boundaries for areas. Furthermore, States cannot not rely solely on the projections of future attainment contained or implied process that will occur over the next 9 months and that will be based on more recent air quality data from 2000-2002 or from 2001-2003, if available. Thus, this list of hypothetical areas. Finally, this list does not account for areas that may receive treatment as Early Action Compact areas. This list should not be creation of this set of hypothetical nonattainment areas, while based on actual air quality data from 1998-2000, is not intended to pre-judge the designation

(1998-2000 data) TABLE 1 herein for final analyses necessary for attainment demonstrations in SIPs.

8-HR 03 NAAQS HYPOTHETICAL NONATTAINMENT AREAS AND CLASSIFICATIONS UNDER PROPOSED OPTIONS w/incentiv Moderate Moderate Marginal Subpart 1 Serions Opt 2 Classifications that change under incentive feature are in italics. Column definitions at bottom of table Moderate incentive Subpart 1 Subpart 1 Moderate Marginal Moderate Subpart 1 Subpart 1 Subpart 1 H Subpart Subpart 1 Serious Opt 2 0/M w/incentive Marginal Moderate Moderate Marginal Moderate Marginal Marginal Moderate Marginal Marginal Marginal Serious Opt 1 Moderate incentive Moderate Moderate Moderate Marginal Marginal Marginal Moderate Marginal Marginal ŗ. Marginal Serious Opt. 1 0/M 1-hr Mainte-Moderate Moderate Moderate \subseteq nance** 1-hr Classifi-Severe-15-b Serions cation 0.100 Serious 0.0880.088 860.0 0.0990.091 0.0920.093 0.0890.089 0.1070.085Ö 8-hr D_{λ} l-hr DV 2 0.124 0.103 0.1060.1200.127 0.117 0.112 0.1660.1270.148 0.1070.109Richmond-Petersburg, VA Raleigh-Durham-Chapel Providence (All RI), RI Sacramento Metro, CA Rocky Mount, NC ⋖ San Antonio, TX Pulaski Co, KY Putnam Co, TN San Diego, CA Roanoke, VA Redding, CA Reading, PA Hill, NC NAME

Moderate

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TABLE 1

8-HR O3 NAAQS HYPOTHETICAL NONATTAINMENT AREAS AND CLASSIFICATIONS UNDER PROPOSED OPTIONS (1998-2000 data)

Classificat	ons that ch	nange und	er incentive fea	Classifications that change under incentive feature are in italics. Column definitions at bottom of table	. Column def	initions at bott	om of table	SNOT TO TO
A	В	C	D	E	F	5	H	I
44.					0/M	w/incentive	o/w	w/incentiv
					incentive		incentive	e e
	1-hr DV	8-hr	1-hr Classifi-	1-hr Mainte-	Opt. 1	Opt 1	Opt 2	Opt 2
		Dγ	cation	nance**				
San Francisco Bay Area, CA	0.139	980.0	0.086 Other		Marginal	Marginal	Marginal	Maroinal
San Joaquin Valley, CA	0.161	0.111	Serions		Serions	Serious	Serions	Serions
Scranton-Wilkes-Barre-	0.113	0.097	0.097 Marginal		Moderate	Moderate	Subsect 1	Surley 1
Hazleton, PA))		A CONTRACT	TATORCI GIO	Suopait 1	Suopart 1
Sheboygan WI	0 120	000						
Sircoygaii, Wi		0.092		Moderate	Moderate	Moderate	Moderate	Moderate
Shreveport-Bossier City, LA	0.114	0.091			Marginal	Marginal	Subnart 1	Subpart 1
South Bend-Elkhart, IN	0.114	980.0		Marginal	Marginal	Maroinal	Subpart 1	Subsent 1
Southeast Desert Modified	0.164	0.113	Severe-17		Serions	Corions	Suchait 1	Suppart 1
AQMA, CA					choring	Scrious	Serions	Serious
Springfield (Western MA),	0.116	0.087	Serious		Maroinal	Marginal	Culpoort 1	Ch. Langua 1
MA						111m1 S111m1	Suopait i	Suopait i
St Louis, MO-IL	0.127	0.094	Moderate		Moderate	Moderate	Moderate	Moderate
Tamna-St Peterching.	0 117				an ionoria	ייייייייייייייייייייייייייייייייייייייי	INTOUCHARE	Moderate
rampa-Dr. 1 closedurg-	0.117	0.080		Marginal	Marginal	Marginal	Subpart 1	Suhnart 1

for the purpose of analyzing and illustrating how the various implementation options might apply to areas designated nonattainment for the 8-hour NAAQS. The construed as a proposal by EPA of areas that should be designated nonattainment. Nor should States rely on this list when considering what recommendations to NOTE: The EPA's inclusion and grouping of counties into hypothetical nonattainment areas for purposes of the proposed implementation rule was done solely recommend and EPA may designate as attainment areas that are on this list. In addition, boundaries of nonattainment areas could be different than as defined in State recommendations this summer and the final designations by EPA in April 2004, may include as nonattainment areas not on this list. Similarly, States may make regarding designations and boundaries for areas. Furthermore, States cannot not rely solely on the projections of future attainment contained or implied process that will occur over the next 9 months and that will be based on more recent air quality data from 2000-2002 or from 2001-2003, if available. Thus, this list of hypothetical areas. Finally, this list does not account for areas that may receive treatment as Early Action Compact areas. This list should not be creation of this set of hypothetical nonattainment areas, while based on actual air quality data from 1998-2000, is not intended to pre-judge the designation herein for final analyses necessary for attainment demonstrations in SIPs.

			7100	TABLE 1				
8-HR O3 NAAQS HYPOTHETICAL NONATTAINMENT AREAS AND CLASSIFICATIONS UNDER PROPOSED OPTIONS Classifications that change under incentive feature are in italics. Column definitions at bottom of table	'HETICA'	L NONAT	real FTAINMENT A representation of the control of t	S HYPOTHETICAL NONATTAINMENT AREAS AND CLASSIFICATIONS UNDER PROPOCLASSIFICATIONS UNDER PROPOCLASSIFICATIONS UNDER PROPOCLASSIFICATIONS at bottom of table	LASSIFICAT Column defi	TONS UNDE	R PROPOSE	OPTIONS
A	В	၁	D	E	F	G	H	I
					O/M	w/incentive	o/w	w/incentiv
					incentive		incentive	e
NAME	1-hr DV	8-hr	1-hr Classifi-	1-hr Mainte-	Opt. 1	Opt 1	Opt 2	Opt 2
		DV	cation	nance**				
Clearwater, FL								
Toledo, OH	0.106	0.085		Moderate	Marginal	Marginal	Subpart 1	Subpart 1
Tulsa. OK	0.114	0.093			Moderate	Marginal	Subpart 1	Subpart 1
Tyler, TX	0.113	0.091			Marginal	Marginal	Subpart 1	Subpart 1
Ventura Co, CA	0.132	0.105	Severe15		Moderate	Moderate	Moderate	Moderate
Washington-Baltimore, DC-MD-VA-WV	0.145	0.107	Serious		Serious	Serions	Serions	Serions
York, PA	0.114	0.093	Marginal		Moderate	Marginal	Subpart 1	Subpart 1
Youngstown-Warren-	0.117	0.092	0.092 Marginal		Moderate	Marginal	Subpart 1	Subpart 1
Sharon, PA-OH								
Yuba City, CA	0.116	0.089	0.089 Sec185A		Marginal	Marginal	Subpart 1	Subpart 1
* Current 1-hr O3 NA classification (blank if maintenance or never attainment)	fication (bl	ank if ma	intenance or nev	ver attainment)				***************************************

** Entry indicates area is maintenance area with its former NA classification

for the purpose of analyzing and illustrating how the various implementation options might apply to areas designated nonattainment for the 8-hour NAAQS. The construed as a proposal by EPA of areas that should be designated nonattainment. Nor should States rely on this list when considering what recommendations to NOTE: The EPA's inclusion and grouping of counties into hypothetical nonattainment areas for purposes of the proposed implementation rule was done solely State recommendations this summer and the final designations by EPA in April 2004, may include as nonattainment areas not on this list. Similarly, States may recommend and EPA may designate as attainment areas that are on this list. In addition, boundaries of nonattainment areas could be different than as defined in make regarding designations and boundaries for areas. Furthermore, States cannot not rely solely on the projections of future attainment contained or implied process that will occur over the next 9 months and that will be based on more recent air quality data from 2000-2002 or from 2001-2003, if available. Thus, this list of hypothetical areas. Finally, this list does not account for areas that may receive treatment as Barly Action Compact areas. This list should not be creation of this set of hypothetical nonattainment areas, while based on actual air quality data from 1998-2000, is not intended to pre-judge the designation herein for final analyses necessary for attainment demonstrations in SIPs.

8-HR 03 NAAQS HYPOTHETICAL NONATTAINMENT AREAS AND CLASSIFICATIONS UNDER PROPOSED OPTIONS w/incentiv Opt 2 o Classifications that change under incentive feature are in italics. Column definitions at bottom of table incentive H Opt 2 0/M w/incentive Opt 1 incentive Opt. 1 0/M 1-hr Mainte-(1998-2000 data) TABLE 1 \mathbf{x} nance** 1-hr Classifi-cation 8-hr DV 1-hr DV 2 ⋖ NAME

A Name of hypot B 1-hr O3 design C 8-hr O3 design D Area's current of	
A Name of hypot B 1-hr O3 design C 8-hr O3 design D Area's current	
B 1-hr O3 design C 8-hr O3 design D Area's current	thation 10 land
C 8-hr O3 design D Area's current	ny poutetivat o-in O3 nonattainment area
D Area's current	1-hr O3 design value for 1998-2000 (nnm O3)
D Area's current	8-hr O3 design value for 1998-2000 (nnm O3)
	Area's current classification if nonattainment under 1 br O3 NIA A OS 213 1 15
	or in OS INAAQS (blank if maintenance or never
E No entry means	No entry means either the area is nonatfainment (see sed D) and it are
nonattainment.	nent. Entry indicates area is designated attainment and last never been
area's for	lassification
F Area's 8-hr clas	Area's 8-hr classification under proposed classification antian 1 11
G Area's 8-hr clas	Ssification under proposed alorgic actions and an expensive feature
H Area's 8-hr clas	r classification under managed 1 1
I Area's 8-hr clas	r classification in deal proposed classification option 2 without the incentive feature
ON THE CASE OF THE	diagrammation under proposed classification option 2 with the incentive feature

for the purpose of analyzing and illustrating how the various implementation options might apply to areas designated nonattainment for the 8-hour NAAQS. The construed as a proposal by EPA of areas that should be designated nonattainment. Nor should States rely on this list when considering what recommendations to NOTE: The EPA's inclusion and grouping of counties into hypothetical nonattainment areas for purposes of the proposed implementation rule was done solely recommend and EPA may designate as attainment areas that are on this list. In addition, boundaries of nonattainment areas could be different than as defined in State recommendations this summer and the final designations by EPA in April 2004, may include as nonattainment areas not on this list. Similarly, States may make regarding designations and boundaries for areas. Furthermore, States cannot not rely solely on the projections of future attainment contained or implied process that will occur over the next 9 months and that will be based on more recent air quality data from 2000-2002 or from 2001-2003, if available. Thus, this list of hypothetical areas. Finally, this list does not account for areas that may receive treatment as Early Action Compact areas. This list should not be creation of this set of hypothetical nonattainment areas, while based on actual air quality data from 1998-2000, is not intended to pre-judge the designation herein for final analyses necessary for attainment demonstrations in SIPs.

III. TABLE 2: PROJECTED 8-HOUR OZONE DESIGN VALUES

Table 2 presents the modeled projected 8-hour ozone design values used to estimate which areas would attain by certain dates. The references below the table provide the source of information for the projections.

It should be noted that the projections for 2007 account for the NOx SIP call reductions in a way that is different from the final version of the NOx SIP call. Subsequent modeling may yield different results for 2007. Also, the projections for 2007 were based on reductions from ozone design values from the 3 year period 1997-1999, not 1998-2000.

Also, the projections for 2010 and 2020 (base case and with Clear Skies Act controls) were based on reductions from ozone design values from the 3 year period 1997-1999, not 1998-2000. In addition, subsequent modeling may yield different results.

As noted above, this set of hypothetical areas and the projections DO NOT have any implications for the location, for the number or boundaries of nonattainment areas that may ultimately be evaluated and recommended by States and Tribes or designated by EPA. Furthermore, they do not have implications for final analyses necessary for attainment demonstrations.

TOTAL TOT (TROOPERS OF THE PROPERTY OF THE PRO	nan Tot Canad		actitotistiations III SIFS	. [
		A R	ROJECTE	I ABLE 2 PROJECTED 8-HOUR OZONE DESIGN VALUES	I ABLE 2 UR OZONE	DESIGN	VALUES				
				BOLD =	BOLD = projected violation of 8-hr O3 NAAQS & design value	violation	of 8-hr O	3 NAAQS	& design	ר value	
Υ	ш	O	Ω	ш	L	ව	I		7	\prec	
NAME	1998- 2000 1- hr DV	1998- 2000 8- hr DV	Opt. 1 w/o inc	Opt 1 w/inc	Opt 2 w/o inc	Opt 2 w/inc	2007*** 8-hr DV	base10	cs 2010***	base20**	cs 2020***
Adams Co, MS	0.102	0.0	85 Marginal	Marginal	Subpart	Subpart	0.074	8-nr DV 0.071	8-hr DV 0.069	8-hr DV 0.067	8-hr DV 0.063
Albany, GA	0.098	0.0	85 Marginal	Marginal	Subpart	Subpart	0.071	0.073	0.065	0.068	0.058
Allentown-Bethlehem- Easton, PA-NJ	0.119		0.097 Moderat	Moderat	Subpart	Subpart	0.089	0.088	0.087	0.082	0.081
Altoona, PA	0.113	0.0	89 Marginal	Marginal	Subpart	Subpart	0.080	0.076	0.076	0.071	0.070
Asheville, NC	0.111	0.0	94 Moderat	Marginal	Subpart	Subpart	0.077	0.075	0.073	0.067	0.064
Atlanta, GA	0.157	0.1	21 Severe-	Severe-	Severe-	Severe-	0.106	0.105	0.101	0.097	0.091
Augusta-Aiken, GA-SC	0.117		derat	Marginal	Subpart 1	Subpart	0.078	0.078	0.076	0.072	0.069
								_			

		PR	OJECTEI	TABLE 2 PROJECTED 8-HOUR OZONE DESIGN VALUES	TABLE 2 UR OZONE I	DESIGN V	'ALUES	l			
				BOLD = projected violation of 8-hr O3 NAAQS & design value	rojected	violation	of 8-hr O	3 NAAQS	& design	value	
٩	В	O	Q	ш	ш.	Ŋ	I		7	エ	_
NAME	1998- 2000 1-	1998- 2000 8-	Opt. 1 w/o inc	Opt 1 w/inc	Opt 2 w/o inc	Opt 2 w/inc	2007*** 8-hr DV	base10 ***	cs 2010***		cs 2020***
	hr DV	hr DV						8-hr DV	8-hr DV	8-hr DV	8-hr DV
Austin-San Marcos, TX	0.110		0.088 Marginal	Marginal	Subpart 1	Subpart 1	0.081	0.077	0.076		0.070
Baton Rouge, LA	0.135		0.096 Moderat e	Moderat	Moderat	Moderat e	0.088	0.084	0.083	0.081	0.078
Beaumont-Port Arthur, TX	0.121		0.087 Marginal	Marginal	Marginal Marginal Margina	Marginal	0.085	0.081	0.081	0.079	0.078
Bell Co, KY	0.108		0.086 Marginal	Marginal	Subpart 1	Subpart 1	0.063	0.062	0.061	0.056	0.054
Benton Harbor, MI	0.119	1	0.088 Marginal	Marginal	Subpart 1	Subpart 1	0.086	0.083	0.082		}
Benzie Co, MI	0.110		0.089 Marginal	Marginal	Subpart 1	Subpart 1	0.080	0.080	0.078	0.076	
Biloxi-Gulfport-	0.118	1	0.092 Moderat	Moderat	Subpart	Subpart	0.087	0.086	0.078	0.082	0.073
Pascagoula, MS			G	Q		-					

ses incressary for attainment demonstrations in SIPs.	essary ior att	amment den	nonstrations	!		,	respondent of them of the substitution of	or tuture	attamment (ontained or	implied
		P	ROJECTE	,T 3D 8-HOUF	TABLE 2 PROJECTED 8-HOUR OZONE DESIGN VALUES	DESIGN	0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				
				BOLD =	BOLD = projected violation of 8-hr O3 NAAQS & design value	violation	of 8-hr O	3 NAAQS	& design	value	
∢	В	0		ш	L	9	I			×	
NAME	1998-	1998- 2000 8-	Opt. 1 w/o inc	Opt 1 w/inc	Opt 2 w/o inc	Opt 2 w/inc	2007*** 8-hr DV	base10	CS 2010***	base20**	SS
Birmingham, AL	0.137	2	. DV 0.102 Moderat	Marginal		Moderat Marginal	0.083	8-hr DV 0.080	8-hr DV 0.075	8-hr DV	2020*** 8-hr DV 0 065
Boston-Lawrence- Worcester (E. MA), MA- NH	0.119	0.0	93 Moderat e	Moderat	Subpart	Subpart 1	0.090	0.085	0.084	0.082	0.081
Bowling Green, KY	0.116	0.0	Moderat	Marginal	Subpart	Subpart	0.077	0.069	0.068	0.064	0.062
Buffalo-Niagara Falls, NY	0.107	0.089	9 Marginal	Marginal	Subpart	Subpart	0.077	0.077	0.076	0.074	0.072
Canton-Massillon, OH	0.110	0.091	1 Marginal	Marginal	Subpart 1	Subpart	0.079	0.077	0.077	0.072	0.070
Cedar Co, MO	0.099	0.088		Marginal	Subpart 1	Subpart	0.078	0.000	0.000	0.000	0.000
Cnarleston, WV	0.121	0.090	0.090 Marginal	Marginal	Marginal Marginal Marginal	Marginal	0.077	0.071	0.070	0.066	0.065

				. [TABLE 2						
		PR	COJECTE	D 8-HOUF	ROJECTED 8-HOUR OZONE DESIGN VALUES	DESIGN 1	VALUES				
				BOLD =	projected	violation	of 8-hr C	3 NAAQ	BOLD = projected violation of 8-hr O3 NAAQS & design value	n value	
A	m	S	۵	Ш	LL.	Ø	工	_	7	×	_
NAME	1998- 2000 1- hr DV	1998- 2000 8- hr DV	Opt. 1 w/o inc	Opt 1 w/inc	Opt 2 w/o inc	Opt 2 w/inc	2007*** 8-hr DV	base10 ***	cs 2010***	base20**	cs 2020***
								۸ <u>۵</u> ااا-ه	o-nr Dv	8-nr DV	8-hr DV
Charlotte-Gastonia- Rock Hill, NC-SC	0.132		0.104 Moderat e	Moderat	Moderat	Moderat	0.089	0.086	0.085	0.078	0.075
Chattanooga, TN-GA	0.127		0.097 Moderat	Marginal	Modera	Marginal	0.079	0.078	0.074	0.071	0.065
Chicago-Gary-Lake County, IL-IN	0.120		0.093 Moderat	Moderat	Subpart 1	Subpart	0.087	0.087	0.086	0.089	0.087
Cincinnati-Hamilton, OH-KY-IN	0.119		0.099 Moderat e	Marginal	Subpart 1	Subpart	0.084	0.079	0.078	0.073	0.072
Clarksville-Hopkinsville, TN-KY	0.111		0.086 Marginal	Marginal	Subpart	Subpart	0.066	0.061	0.059	0.056	0.054
Clay Co, AL	0.113		0.088 Marginal	Marginal	Subpart 1	Subpart	0.072	0.075	0.064	0.069	0.057
					•	•					

				TA	TABLE 2						
		PR	OJECTEL	PROJECTED 8-HOUR OZONE DESIGN VALUES	OZONE I	DESIGN \	ALUES				
				BOLD = p	rojected	violation	of 8-hr O	3 NAAQS	BOLD = projected violation of 8-hr O3 NAAQS & design value	value	
A	В	O	۵	ш	ш.	ڻ ت	I		P	エ	7
NAME	1998- 2000 1-	1998- 2000 8-	Opt. 1 w/o inc	Opt 1 w/inc	Opt 2 w/o inc	Opt 2 w/inc	2007*** 8-hr DV	base10 ***	cs 1 2010***	base20**	cs 2020***
	hr DV	hr DV						8-hr DV	8-hr DV	8-hr DV	8-hr DV
Cleveland-Akron, OH	0.121		0.095 Moderat e	Moderat e	Moderat e	Moderat e	0.089	0.086	0.085	0.083	0.080
Columbia, SC	0.116	į	0.096 Moderat e	Marginal	Subpart 1	Subpart 1	0.079	0.076	0.074	0.067	0.065
Columbus, GA-AL	0.113		0.093 Moderat e	Marginal	Subpart 1	Subpart 1	0.077	0.078	0.070	0.071	0.061
Columbus, OH	0.121		0.095 Moderat e	Marginal	Moderat Marginal	Marginal	0.084	0.082	0.081	0.076	0.075
Dallas-Fort Worth, TX	0.131		0.102 Moderat e	Moderat e	Moderat e	Moderat e	0.095	680'0	0.088	0.084	0.081
Dayton-Springfield, OH	0.119	0.0	93 Moderat e	Marginal	Subpart 1	Subpart 1	0.082	0.078		0.072	0.071
Decatur, AL	0.102		0.086 Marginal	Marginal	Subpart 1	Subpart 1	000.0	0.069	0.066	0.064	0.060

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		PR	ROJECTE	PROJECTED 8-HOUR OZONE DESIGN VALUES	I ABLE 2 UR OZONE	DESIGN	VALUES				
				BOLD = 1	projected	BOLD = projected violation of 8-hr O3 NAAQS & design value	of 8-hr O	3 NAAQS	& design	r value	
∢	Ω	O	۵	Ш	ட	Ŋ	I	_	ſ	ㅈ	
NAME	1998- 2000 1-		Opt. 1 w/o inc	Opt 1 w/inc	Opt 2 w/o inc	Opt 2 w/inc	2007*** 8-hr DV	base10	cs 2010***	base20**	CS CS CS
	hr DV	ᅙ						8-hr DV	8-hr DV	8-hr DV	8-hr DV
Denver-Boulder- Greeley, CO	0.112		0.086 Marginal	Marginal	Subpart	Subpart	0.000	0.000	0.000	0.000	0.000
Detroit-Ann Arbor-Flint, MI	0.123		0.089 Marginal	Marginal	Marginal Marginal Marginal	Marginal	0.089	0.088	0.087	0.089	0.087
Erie, PA	0.113	1	0.090 Marginal	Marginal	Subpart	Subpart	0.083	0.081	0.080	0.077	0.074
Evansville-Henderson, IN-KY	0.114		0.091 Marginal	Marginal	Subpart	Subpart	0.082	0.078	0.074	0.071	0.068
Fayetteville, NC	0.117	0.0	33 Moderat e	Marginal	Subpart	Subpart	0.079	0.075	0.074	0.068	0.065
Florence, AL	0.107	0.0	arginal	Marginal	Subpart	Subpart	0.069	0.067	0.064	0.062	0.059
Florence, SC	0.105		0.089 Marginal	Marginal	Subpart	Subpart	0.077	0.073	0.072	0.068	0.065
					-	_				-	-

				TA	TABLE 2						
		PR	OJECTEL	PROJECTED 8-HOUR OZONE DESIGN VALUES	OZONE	DESIGN \	/ALUES				
				BOLD = p	BOLD = projected violation of 8-hr O3 NAAQS & design value	violation	of 8-hr O	3 NAAQS	& design	value	
A	B	O	Ω	Ш	LL.	၅	I		ſ	¥	
NAME	1998-	1998-	Opt. 1	Opt 1	Opt 2	Opt 2	2007*** 8-hr DV	base10	cs 2010***	base20**	cs 2020***
	hr DV	hr DV		2	2			8-hr DV	8-hr DV	8-hr DV	8-hr DV
Fort Wayne, IN	0.102	0.0	90 Marginal	Marginal	Subpart 1	Subpart 1	0.078	0.075	0.074	0.070	0.068
Goldsboro, NC	0.109		0.087 Marginal	Marginal	Subpart 1	Subpart 1	0.077	0.070	0.068	0.064	0.061
Grand Rapids- Muskegon-Holland, MI	0.124		0.091 Marginal	Marginal	Marginal	Marginal	0.086	0.083	0.082	0.080	0.077
Greater Connecticut, CT	0.145	0.0	95 Moderat e	Moderat e	Moderat e	Moderat e	0.091	0.091	0.091	0.088	0.087
Green Bay- Appleton- Oshkosh-Neenah-Door, WI	0.112	0.0	92 Moderat e	Moderat e	Subpart 1	Subpart 1	0.088	0.087	0.085	0.083	0.078
Greenbrier Co, WV	0.108	0.0	89 Marginal	Marginal	Subpart 1	Subpart 1	0.065	0.064	0.063	090.0	0.058
Greensboro-Winston	0.123	0.0	98 Moderat	Marginal	Marginal Moderat Marginal	Marginal	0.082	0.079	0.077	0.070	0.068

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		PA	OJECTE	T D 8-HOUF	IABLE 2 PROJECTED 8-HOUR OZONE DESIGN VALUES	DESIGN	/ALUES				
				BOLD = 1	BOLD = projected violation of 8-hr O3 NAAQS & design value	violation	of 8-hr O	3 NAAQS	& design	value	
A	В	O	۵	Ш	Щ	ව	工	_	r	ス	
NAME	1998- 2000 1- hr DV	1998- 2000 8- hr DV	Opt. 1 w/o inc	Opt 1 w/inc	Opt 2 w/o inc	Opt 2 w/inc	2007*** 8-hr DV	base10 ***	cs 2010***		cs 2020***
Salem-High Point, NC		Г	Θ		Œ			٥-اا-٥	0-III DV	ø-nr DV	8-hr DV
Greenville, NC	0.110	0.0	88 Marginal	Marginal	Subpart	Subpart	0.080	0.077	0.076	0.070	0.068
Greenville-Spartanburg- Anderson, SC	0.120		0.095 Moderat e	Marginal	Subpart	Subpart	0.080	0.079	0.077	0.071	0.069
Hancock & Waldo Cos, ME	0.123		0.087 Marginal	Marginal	Marginal Marginal	Marginal	0.080	0.076	0.076	0.070	0.069
Harrisburg-Lebanon- Carlisle, PA	0.117	0.095	95 Moderat e	Maringal	Subpart 1	Subpart 1	0.083	0.083	0.081	0.077	0.072
Hickory-Morganton- Lenoir, NC	0.114	0.092	0.092 Moderat e	Marginal	Subpart	Subpart	0.074	0.072	0.070	0.065	0.062
Houma, LA	0.111	0.087	0.087 Marginal	Marginal	Subpart	Subpart	0.081	0.079	0.078	0.077	0.075
Houston-Galveston-	0.199	0.1	12 Serious	Serious	Serious	Serious	0.112	0.110	0.109	0.110	0.108

				TA	TABLE 2						
		PR	OJECTEL	8-HOUR	PROJECTED 8-HOUR OZONE DESIGN VALUES	JESIGN V	'ALUES				
				BOLD = p	= projected violation of 8-hr O3 NAAQS & design value	violation	of 8-hr O	3 NAAQS	& design	value	, , ,
A	В	O	۵	Ш	Ш.	ပ	I		٦	×	_
NAME	1998-	1998- 2000 8-	Opt. 1 w/o inc	Opt 1 w/inc	Opt 2 w/o inc	Opt 2 w/inc	2007*** 8-hr DV	base10	cs 2010***	base20**	cs 2020***
	hr DV	hr DV						8-hr DV	8-hr DV	8-hr DV	8-hr DV
Brazoria, TX											
Huntington-Ashland, WV-KY-OH	0.127	0.0	94 Moderat e	Marginal	Moderat e	Marginal	0.081	0.076	0.075	0.072	0.071
Huntsville, AL	0.111	0.0	91 Marginal	Marginal	Subpart 1	Subpart 1	0.078	0.075	0.073	690.0	0.065
Indianapolis, IN	0.114	0.0	95 Moderat e	Moderat e	Subpart 1	Subpart 1	0.086	0.083	0.082	0.078	0.075
Jamestown, NY	0.107	0.0	88 Marginal	Marginal	Subpart 1	Subpart 1	0.079	0.077	0.077	0.074	0.071
Janesville-Beloit, WI	0.101	0.0	86 Marginal	Marginal	Subpart 1	Subpart 1	0.078	0.077	0.075	0.072	0.069
Johnson City-Kingsport- Bristol, TN-VA	0.113	0.0	94 Moderat e	Marginal	Subpart 1	Subpart 1	0.076	0.070	0.069	0.064	0.063
Johnstown, PA	0.112	0.0	91 Marginal	Marginal	Subpart	Subpart	0.081	0.077	0.077	0.073	0.071

				TA	TABLE 2						
		PR	OJECTEI	PROJECTED 8-HOUR OZONE DESIGN VALUES	OZONE	DESIGN V	/ALUES				
				BOLD = projected violation of 8-hr O3 NAAQS & design value	projected	violation	of 8-hr O	3 NAAQS	& design	value	
∢	В	O	O	Ш	ш.	ပ	I		٦	¥	٦
NAME	1998- 2000 1-	1998- 2000 8-	Opt. 1 w/o inc	Opt 1 w/inc	Opt 2 w/o inc	Opt 2 w/inc	2007*** 8-hr DV	base10 ***	cs 2010***	base20**	cs 2020***
	hr DV	hr DV						8-hr DV	8-hr DV	8-hr DV	8-hr DV
					1						
Kansas City, MO-KS	0.122	0.0	89 Marginal	Marginal	Marginal	Marginal	0.084	0.082	0.078	0.079	0.071
Knoxville, TN	0.138	0.1	04 Moderat e	Moderat e	Moderat e	Moderat e	0.087	0.083	0.082	0.075	0.074
Lafayette, LA	0.109	0.0	85 Marginal	Marginal	Subpart 1	Subpart 1	0.076	0.075	0.073	0.071	0.069
Lake Charles, LA	0.127	0.0	88 Marginal	Marginal Marginal		Marginal	0.085	0.081	0.081	0.079	0.077
Lancaster, PA	0.121	0.0	97 Moderat e	Moderat e	Moderat e	Moderat e	0.090	0.087	0.086	0.080	0.078
Las Vegas, NV-AZ	0.106	0.0	85 Marginal	Marginal	Subpart 1	Subpart 1	0.000	0.000		0.000	0.000
Lee Co, MS	0.107	0.0	88 Marginal	Marginal	Subpart	Subpart	0.072	0.070	0.067	0.064	0.061

		PR	OJECTEL	TABLE 2 PROJECTED 8-HOUR OZONE DESIGN VALUES	TABLE 2 UR OZONE I	DESIGN V	ALUES				
				BOLD = projected violation of 8-hr O3 NAAQS & design value	rojected	violation	of 8-hr O	3 NAAQS	& design	value	
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NAME	1998-	1998-	Opt. 1 w/o inc	Opt 1 w/inc	Opt 2 w/o inc	Opt 2 w/inc	2007*** 8-hr DV	base10	cs 2010***	base20**	cs 2020***
	hr DV	hr DV						8-hr DV	8-hr DV	8-hr DV	8-hr DV
					1	1					
Lexington, KY	0.108	0.0	85 Marginal	Marginal	Subpart 1	Subpart 1	0.075	0.071	0.071	0.067	0.065
Lima, OH	0.107	0.0	89 Marginal	Marginal	Subpart 1	Subpart 1	0.078	0.075	0.075	0.071	0.069
Little Rock-North Little Rock, AR	0.113	0.0	87 Marginal	Marginal	Subpart 1	Subpart 1	0.074	0.072	0.067	0.067	0.058
Longview-Marshall, TX	0.134	0.1	02 Moderat e	Moderat e	Moderat e	Moderat e	0.092	0.081	0.080	0.077	0.073
Los Angeles South Coast Air Basin, CA	0.211	0.1	46 Severe- 17	Severe-	Severe-	Severe- 17	0.000	0.127	0.127	0.114	0.114
Louisville, KY-IN	0.123	0.0	96 Moderat e	Moderat e	Moderat e	Moderat e	0.085	0.079	0.078	0.076	0.074
Macon, GA	0.134	0.1	05 Moderat	Moderat	Moderat Moderat	Moderat	0.088	0.095	0.075	060.0	0.067

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		PR	OJECTE	77 D 8-HOUF	IABLE 2 PROJECTED 8-HOUR OZONE DËSIGN VALUES	DESIGN	VALUES				
				BOLD =	BOLD = projected violation of 8-hr O3 NAAQS & design value	violation	of 8-hr O	3 NAAQS	& design	value	
A	m	O	Q	Ш	L	ပ	Ξ		7	ス	
NAME	1998- 2000 1- hr DV	1998- 2000 8- hr DV	Opt. 1 w/o inc	Opt 1 w/inc	Opt 2 w/o inc	Opt 2 w/inc	2007*** 8-hr DV	base10 ***	cs 2010***	base20**	cs 2020***
		Т	Φ	đ	đ			۰-اا-ە م	8-nr DV	8-nr DV	8-hr DV
Mason Co, MI	0.116	1	0.089 Marginal	Marginal	Subpa	Subpart	0.084	0.082	080.0	0.078	0.074
Memphis, TN-AR-MS	0.128		0.097 Moderat	Moderat	Modera	Modera	0.087	0.085	0.084	0.084	0.081
Milwaukee-Racine, WI	0.126		0.093 Moderat	Moderat	Modera	Modera	0.089	0.087	0.086	0.087	0.085
Mobile, AL	0.118	-	0.090 Marginal	Marginal	Subpart	Subpart	0.080	0.076	0.070	0.071	0.065
Montgomery, AL	0.121	0.0901	90 Marginal	Marginal	Marginal	Marginal	0.074	0.071	0.068	0.066	0.062
Nashville, TN	0.126	0.100	00 Moderat	Moderat		Moderat	0.089	0.084	0.083	0.078	0.075
New Orleans, LA	0.122		arginal	Marginal	Marginal Marginal Marginal	Marginal	0.080	0.079	0.077	0.077	0.075

		PR	OJECTEL	TABLE 2 PROJECTED 8-HOUR OZONE DESIGN VALUES	TABLE 2 UR OZONE I	DESIGN V	ALUES				
				BOLD = projected violation of 8-hr O3 NAAQS & design value	rojected	violation	of 8-hr O	3 NAAQS	& design	value	
А	B	O	Ω	Ш	L	တ	I	_	7	소	
NAME	1998- 2000 1- hr DV	1998- 2000 8- hr DV	Opt. 1 w/o inc	Opt 1 w/inc	Opt 2 w/o inc	Opt 2 w/inc	2007*** 8-hr DV	base10 *** 8-hr DV	cs 2010*** 8-hr DV	base20** 8-hr DV	cs 2020*** 8-hr DV
New York-N. New Jersey-L.Island,NY-NJ- CT-PA	0.140	0.1	07 Serious	Serious	Serious	Serious	0.098	0.098	0.098	0.097	0.096
Norfolk-Virginia Beach- Newport News, VA-NC	0.115		0.089 Marginal	Marginal	Subpart 1	Subpart 1	0.085	0.082	0.082	0.078	0.077
Owensboro, KY	0.115		0.094 Moderat e	Marginal	Subpart 1	Subpart 1	0.077	0.074	0.068	990:0	0.063
Paducah, KY	0.121		0.090 Marginal	Marginal	Marginal Marginal	Marginal	0.079	0.077	0.076	0.073	0.070
Parkersburg-Marietta, WV-OH	0.115		0.092 Moderat e	Marginal	Subpart 1	Subpart 1	0.075	0.067	0.066	0.063	0.061
Pensacola, FL	0.118	\	0.094 Moderat e	Moderat e	Subpart 1	Subpart 1	0.088	0.082	0.073	0.077	0.067

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		PA	OJECTE	D 8-HOUF	I ABLE 2 PROJECTED 8-HOUR OZONE DESIGN VALUES	DESIGN	VALUES				
				BOLD = 1	projected	violation	of 8-hr O	3 NAAQS	BOLD = projected violation of 8-hr O3 NAAQS & design value	η value	
۷	m	O	۵	Ш	L	g	I	_	٦	ス	
NAME	1998- 2000 1- hr DV	1998- 2000 8- hr DV	Opt. 1 w/o inc	Opt 1 w/inc	Opt 2 w/o inc	Opt 2 w/inc	2007*** 8-hr DV	base10			cs 2020***
Philadelphia-Wilmin- Atlantic Ci PA-N LMD.	0.147	0.1	06 Moderat		Modera	Moderat	0.097	8-nr DV 0.096	8-hr DV 0.096	8-hr DV 0.093	8-hr DV 0.092
DE Phoenix-Mesa, AZ	0.114		0.087 Marginal	e Marginal	Subpart	e Subpart	0.000	0.085	0.084	0.081	0.080
Pittsburgh, PA	0.123	0.06	Moderat	Moderat	1 Moderat	1 Moderat	0.091	0.087		0.082	0.080
Providence (All RI), RI	0.124	0.0	88 Marginal	e Marginal	e Marginal	e Marginal	0.083	0.082	0.082	0.078	0.077
Pulaski Co, KY	0.103	0.08	88 Marginal	Marginal	Subpart	Subpart	0.068	0.067	0.066	0.062	0.058
Putnam Co, TN	0.106	0.06	1 Marginal	Marginal	Subpart	Subpart	0.071	0.070	0.067	0.064	0.060
Raleigh-Durham-Chapel	0.127	0.098	Moderat	Moderat	Moderat Moderat	Moderat	0.089	0.085	0.084	0.076	0.074

				TA	TABLE 2						
		PR	OJECTE	PROJECTED 8-HOUR OZONE DESIGN VALUES	OZONE	JESIGN /	'ALUES				
				BOLD = projected violation of 8-hr O3 NAAQS & design value	orojected	violation	of 8-hr O	3 NAAQS	& design	ı value	
A	B	O	Q	Ш	ш.	ග	I	_	J	ス	
NAME	1998-	1998- 2000 8-	Opt. 1 w/o inc	Opt 1 w/inc	Opt 2 w/o inc	Opt 2 w/inc	2007*** 8-hr DV	base10	cs 2010***	base20**	cs 2020***
	hr DV	hr DV						8-hr DV	8-hr DV	8-hr DV	8-hr DV
Hill, NC			Θ	Э	Э	Э					
Reading, PA	0.117		0.092 Moderat e	Marginal	Subpart 1	Subpart 1	0.084	0.083	0.082	0.076	0.074
Redding, CA	0.120		0.093 Moderat e	Moderat e	Subpart 1	Subpart 1	0.000	0.082	0.082	0.074	0.074
Richmond-Petersburg, VA	0.127		0.099 Moderat e	Moderat e	Moderat e	Moderat e	0.085	0.083	0.082	0.077	0.075
Roanoke, VA	0.112	į	0.089 Marginal	Marginal	Subpart 1	Subpart 1	0.074	0.071	0.071	0.065	0.064
Rocky Mount, NC	0.107		0.089 Marginal	Marginal	Subpart 1	Subpart 1	0.077	0.075		0.069	0.066
Sacramento Metro, CA	0.148	ļ	0.107 Serious	Serious	Serious	Serious	0.000	0.089	0.089	080'0	0.080
San Antonio, TX	0.109	ŀ	0.085 Marginal	Marginal	Subpart	Subpart	0.000	0.000	0.000	0.000	0.000

					TABLE 2						
		PR	OJECTE	PROJECTED 8-HOUR OZONE DESIGN VALUES	OZONE I	JESIGN V	/ALUES				
				BOLD = p	BOLD = projected violation of 8-hr O3 NAAQS & design value	violation	of 8-hr O	3 NAAQS	& design	ı value	
A	В	O	Ω	Ш	止	ပ	I		ŋ	エ	
NAME	1998-	1998- 2000 8-	Opt. 1 w/o inc	Opt 1 w/inc	Opt 2 w/o inc	Opt 2 w/inc	2007*** 8-hr DV	base10	cs 2010***	base20**	cs 2020***
	hr DV	hr DV						8-hr DV	8-hr DV	8-hr DV	8-hr DV
						1					
San Diego, CA	0.166	0.1	00 Moderat e	Moderat e	Moderat e	Moderat e	0.000	0.086	0.086	0.077	0.077
San Francisco Bay Area, CA	0.139	0.0	86 Marginal	Marginal	Marginal	Marginal	0.000	0.073	0.073	0.066	0.066
San Joaquin Valley, CA	0.161	0.1	11 Serious	Serions	Serions	Serious	0.000	0.098	0.098	0.088	0.088
Scranton-Wilkes-Barre- Hazleton, PA	0.113	0.0	97 Moderat e	Moderat e	Subpart 1	Subpart 1	0.089	0.084	0.084	0.079	0.078
Sheboygan, Wi	0.130		0.092 Moderat e	Moderat e	Moderat e	Moderat e	0.088	0.087	0.085	0.083	0.078
Shreveport-Bossier City, LA	0.114	0.0	91 Marginal	Marginal	Subpart 1	Subpart 1	0.081	0.077	0.075	0.074	0.070
South Bend-Elkhart, IN	0.114	0.0	86 Marginal	Marginal	Subpart	Subpart	0.080	0.077	0.076	0.073	0.070

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		PR	TABLE 2 PROJECTED 8-HOUR OZONE DESIGN VALUES	T/ D 8-HOUR	TABLE 2 UR OZONE	DESIGN	VALUES				
				BOLD = 1	projected	violation	of 8-hr O	3 NAAQS	BOLD = projected violation of 8-hr O3 NAAQS & design value	ר value	
∢	m	O	Q	Ш	L.		I	_	ſ	×	
NAME	1998- 2000 1- hr DV	1998- 2000 8- hr DV	Opt. 1 w/o inc	Opt 1 w/inc	Opt 2 w/o inc	Opt 2 w/inc	2007*** 8-hr DV	base10 ***		*	cs 2020***
						_		ا-ا ا-ا	0-III DV	8-nr DV	8-hr DV
Southeast Desert Modified AQMA, CA	0.164	0.1	13 Serious	Serious	Serious	Serious	0.000	0.107	0.107	960.0	0.096
Springfield (Western MA), MA	0.116	0.0	87 Marginal	Marginal	Subpart	Subpart	0.091	0.088	0.088	0.084	0.083
St Louis, MO-IL	0.127	0.0	94 Moderat	Moderat	Moderat	Moderat	0.085	0.084	0.082	0.080	0.076
Tampa-St. Petersburg- Clearwater, FL	0.117	0.0	86 Marginal	e Marginal	Subpart	Subpart	0.082	0.076	0.073	0.070	0.067
Toledo, OH	0.106	0.0	85 Marginal	Marginal	Subpart	Subpart	0.080	0.075	0.074	0.072	0.071
Tulsa, OK	0.114		0.093 Moderat	Marginal	Subpart	Subpart	0.082	0.080	0.073	0.076	0.068
Tyler, TX	0.113	0.0	larginal	Marginal	Subpart	Subpart	0.084	0.075	0.074	0.071	0.066

for the purpose of analyzing and illustrating how the various implementation options might apply to areas designated nonattainment for the 8-hour NAAQS. The construed as a proposal by EPA of areas that should be designated nonattainment. Nor should States rely on this list when considering what recommendations to recommend and EPA may designate as attainment areas that are on this list. In addition, boundaries of nonattainment areas could be different than as defined in State recommendations this summer and the final designations by EPA in April 2004, may include as nonattainment areas not on this list. Similarly, States may Note: The EPA's inclusion and grouping of counties into hypothetical nonattainment areas for purposes of the proposed implementation rule was done solely make regarding designations and boundaries for areas. Furthermore, States cannot not rely solely on the projections of future attainment contained or implied process that will occur over the next 9 months and that will be based on more recent air quality data from 2000-2002 or from 2001-2003, if available. Thus, this list of hypothetical areas. Finally, this list does not account for areas that may receive treatment as Early Action Compact areas. This list should not be creation of this set of hypothetical nonattainment areas, while based on actual air quality data from 1998-2000, is not intended to pre-judge the designation herein for final analyses necessary for attainment demonstrations in SIPs.

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		Ä	ROJECTE	I) D 8-HOUF	I ABLE 2 PROJECTED 8-HOUR OZONE DESIGN VALUES	DESIGN	VALUES				
				BOLD =	projected	violation	BOLD = projected violation of 8-hr O3 NAAQS & design value	3 NAAQS	& design	value	
∢	Ф	O		Ш	L	O	I	_	J	ス	
NAME	1998- 2000 1- hr DV	1998- 2000 8- hr DV	Opt. 1 w/o inc	Opt 1 w/inc	Opt 2 w/o inc	Opt 2 w/inc	2007*** 8-hr DV	base10 ***	cs 2010***	base20**	cs 2020***
					_	`) 	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	0-III DV	8-nr DV
Ventura Co, CA	0.132	0.1	05 Moderat	Moderat	Moder	Modera	0.000	0.092	0.092	0.082	0.082
Washington-Baltimore, DC-MD-VA-WV	0.145		0.107 Serious	Serious	Serious	Serious	960.0	0.094	0.094	0.088	0.086
York, PA	0.114		0.093 Moderat	Marginal	Subpart	Subpart	0.083	0.080	0.080	0.074	0.072
Youngstown-Warren- Sharon, PA-OH	0.117	0.092	loderat	Marginal	Subpart	Subpart	0.082	0.081	0.080	0.075	0.073
Yuba City, CA	0.116		0.089 Marginal	Marginal	Subpart	Subpart	0.000	0.077	0.077	0.069	0.069
						-					
< ***						-	-	-	_	-	-

*** A zero entry indicates that the area was not modeled or no projection was available

for the purpose of analyzing and illustrating how the various implementation options might apply to areas designated nonattainment for the 8-hour NAAQS. The construed as a proposal by EPA of areas that should be designated nonattainment. Nor should States rely on this list when considering what recommendations to recommend and EPA may designate as attainment areas that are on this list. In addition, boundaries of nonattainment areas could be different than as defined in State recommendations this summer and the final designations by EPA in April 2004, may include as nonattainment areas not on this list. Similarly, States may Note: The EPA's inclusion and grouping of counties into hypothetical nonattainment areas for purposes of the proposed implementation rule was done solely make regarding designations and boundaries for areas. Furthermore, States cannot not rely solely on the projections of future attainment contained or implied process that will occur over the next 9 months and that will be based on more recent air quality data from 2000-2002 or from 2001-2003, if available. Thus, creation of this set of hypothetical nonattainment areas, while based on actual air quality data from 1998-2000, is not intended to pre-judge the designation this list of hypothetical areas. Finally, this list does not account for areas that may receive treatment as Early Action Compact areas. This list should not be

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	Inditie of hypothetical 8-hr O3 nonattainment area
n	1-hr O3 design value for 1998-2000 (2500 Oct.)
ပ	8-hr O3 design value for 1008 2000 (ppin O3)
D	Area's 8-hr classification under age 1
Ш	Area's 8-hr classification under proposed classification option 1 without the incentive feature
L.	Area's 8-hr classification under a proposed classification option 1 with the incentive feature
ව	Area's 8-hr classification under angent of the incentive feature
I	8-hr O3 design value projected to 2007
_	8-hr design value projected to 2007
ſ	8-hr design value projected to 2010-base case without Clear Skies Act controls
ス	8-hr design value projected to 2010–With Clear Skies Act Controls
7	8-hr design value projected to 2020-based case without Clear Skies Act controls
	Serial projected to 2020-with Clear Skies Act Controls

* REFERENCES:

Modeling analyses for projections to 2007 are found in: U.S. Environmental Protection Agency, Office of Air and Radiation, Technical Support Document for the Heavy-Duty Engine and Vehicle Standards and Highway Diesel Fuel Sulfur Control Requirements: Air Quality Modeling Analyses. EPA420-R-00-028. December 2000. Located at: http://www.epa.gov/otaq/regs/hd2007/frm/r00028.pdf.

http://www.epa.gov/clearskies/Tech_adden.PDF. Results are summarized in "Human Health and Environmental Benefits Achieved by the Clear Information on the modeling analyses for projections to 2010 and 2020 are found in "Technical Addendum: Methodologies for the Benefit Analysis of the Clear Skies Initiative." September 2002. This can be found at the following web site:

Skies Initiative." July 1, 2002. http://www.epa.gov/clearskies/CSIhealth_env_benefits7-01.ppt .

IV. TABLE 3: AREAS CURRENTLY DESIGNATED NONATTAINMENT FOR THE 1-HOUR STANDARD THAT WOULD LIKELY BE DESIGNATED ATTAINMENT UNDER THE 8-HOUR STANDARD BASED ON 1998-2000 DATA.

Table 3 presents areas currently designated nonattainment for the 1-hour standard that would likely be designated attainment under the 8-hour standard. This table is based on data from 1998-2000. Many of these areas are generally not violating the 1-hour standard, but have not been designated attainment for the 1-hour standard.

Note: The EPA's inclusion and grouping of counties into hypothetical nonattainment areas for purposes of the proposed implementation rule was done solely for the purpose of analyzing and illustrating how the various implementation options might apply to areas designated nonattainment for the 8-hour NAAQS. The creation of this set of hypothetical nonattainment areas, while based on actual air quality data from 1998-2000, is not intended to pre-judge the designation process that will occur over the next 9 months and that will be based on more recent air quality data from 2000-2002 or from 2001-2003, if available. Thus, State recommendations this summer and the final designations by EPA in April 2004, may include as nonattainment areas not on this list. Similarly, States may recommend and EPA may designate as attainment areas that are on this list. In addition, boundaries of nonattainment areas could be different than as defined in this list of hypothetical areas. Finally, this list does not account for areas that may receive treatment as Early Action Compact areas. This list should not be construed as a proposal by EPA of areas that should be designated nonattainment. Nor should States rely on this list when considering what recommendations to make regarding designations and boundaries for areas. Furthermore, States cannot not rely solely on the projections of future attainment contained or implied herein for final analyses necessary for attainment demonstrations in SIPs.

TABLE 3
AREAS CURRENTLY DESIGNATED NONATTAINMENT FOR THE 1-HOUR STANDARD THAT ARE ESTIMATED TO BE DESIGNATED ATTAINMENT UNDER THE 8-HOUR STANDARD BASED ON 1998-2000 DATA
Smyth Co, VA (White Top Mtn) (Marginal RT)
Snyder Co, PA (Incomplete Data)
Cheshire Co, NH (Incomplete Data)
Chico, CA (Section 185A)
El Paso, TX (Serious)
Essex Co, NY (Marginal RT)
Jefferson Co, NY (Marginal*)
Juniata Co, PA (Incomplete Data)
Manchester, NH (Marginal)
Portland, ME (Moderate)
Portsmouth-Dover-Rochester, NH (Serious)
Reno, NV (Marginal)
Salem, OR (Incomplete Data)
Sunland Park, NM (New Area 1995) (Marginal)
Susquehanna Co, PA (Incomplete Data)
Warren Co, PA (Incomplete Data)
Wayne Co, PA (Incomplete Data)
Lawrence Co, PA (Incomplete Data)
Lewiston-Auburn, ME (Moderate*)
Santa Barbara-Santa Maria-Lompoc, CA (Serious)