5.4 Ambient Air Quality After Implementation of Source Control Measures

5.4.1 Pollutant Concentration With the Short-term Control Measures

Figures 5.4.1 through 5.4.10 show the ambient concentration of SO_2 , CO, NOx and NO₂ with contribution of each type of source corresponding to the implementation of the short-term air pollution control measures.

5.4.2 Pollutant Concentration With the Long-term Control Measures

Figures 5.4.11 through 5.4.20 show the ambient concentration of SO_2 , CO, NOx and NO₂ with contribution of each type of source corresponding to the implementation of the long-term air pollution control measures.

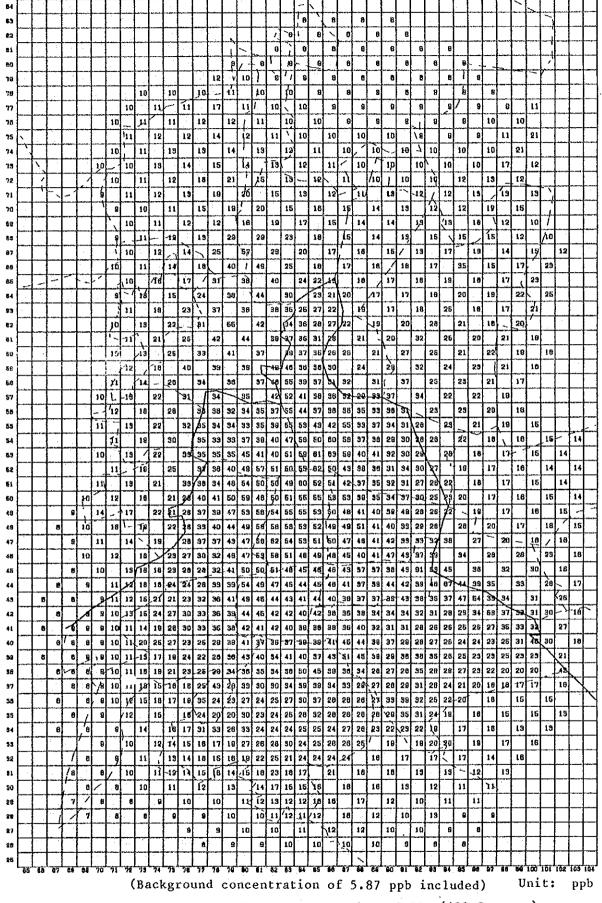


Figure 5.4.1 Ambient Concentration of SO₂ (All Sources) (1993, With short-term control measures)

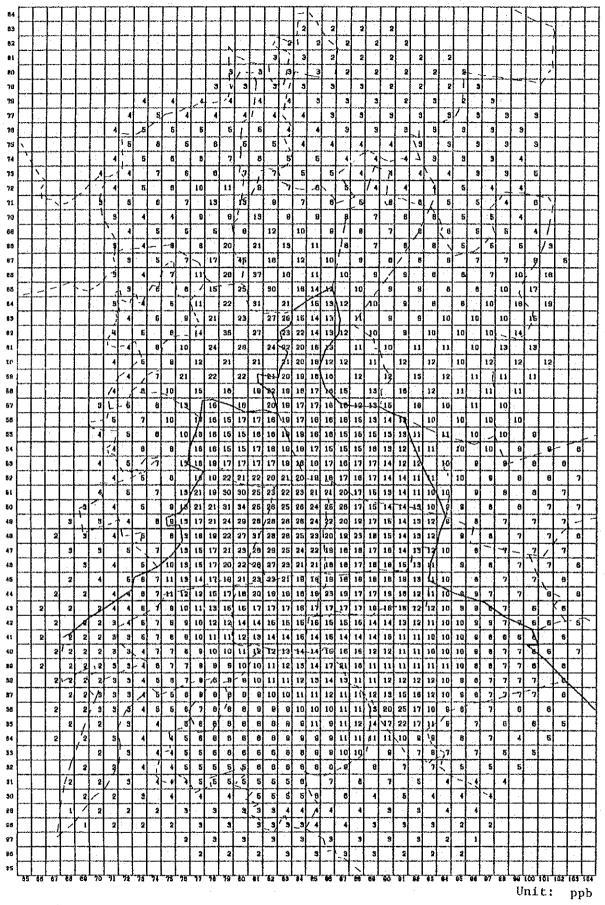


Figure 5.4.2 Contribution of Mobile Sources to SO₂ Concentration (1993, with short-term control measures)

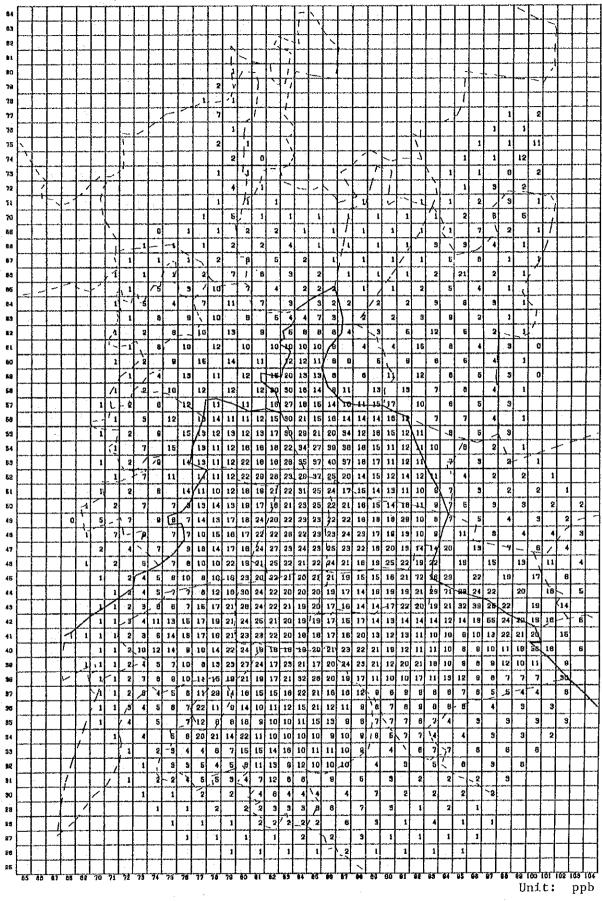


Figure 5.4.3 Contribution of Mobile Sources to SO₂ Concentration (1993, with short-term control measures)

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Figure 5.4.4 Contribution of Automobiles to CO Concentration (1993, With short-term control measures)

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(Background concentration of 24.43 ppb included) Figure 5.4.5 Ambient Concentration of NOx (All Sources) (1993, With short-term control measure)

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Figure 5.4.6 Contribution of Stationary Sources to NOx Concentration (1993, With short-term control measure)

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Figure 5.4.7 Contribution of Mobile Sources to NOx Concentration (1993, With short-term control measure)

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(Background concentration of 6.06 ppb included) Figure 5.4.8 Ambient Concentration of NO₂ (All Sources) (1993, With short-term control measure)

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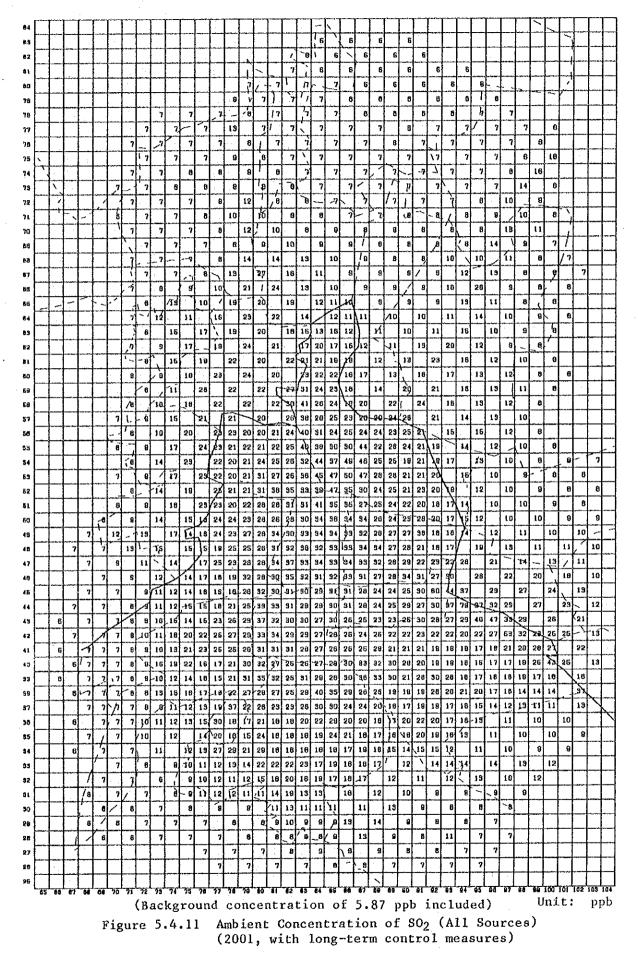
Figure 5.4.9

Contribution of Stationary Sources to  $NO_2$  Concentration (1993, With short-term control measure)

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Figure 5.4.10 Contribution of Mobile Sources to NO₂ Concentration (1993, With short-term control measure)



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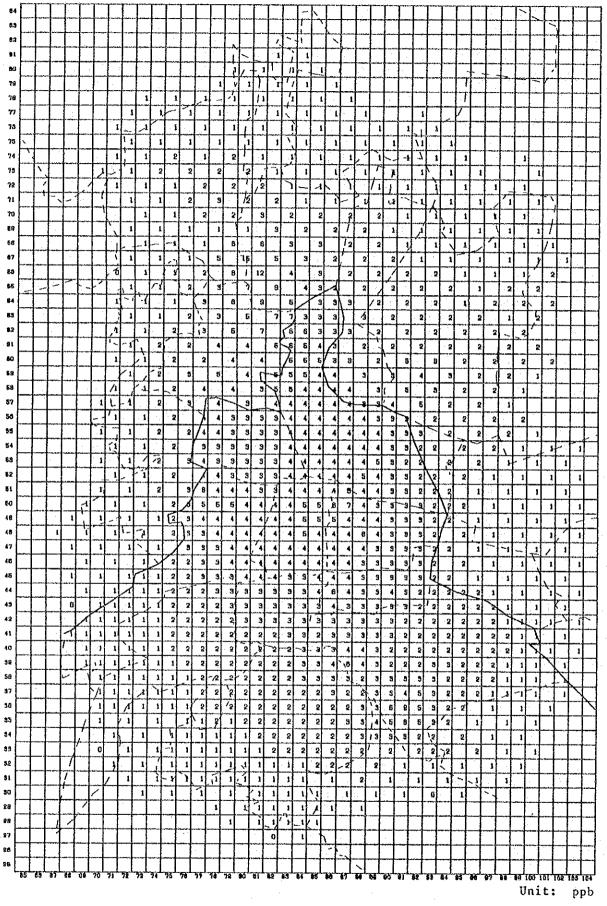


Figure 5.4.12 Contribution of Stationary Sources to SO₂ Concentration (2001, With long-term control measures)

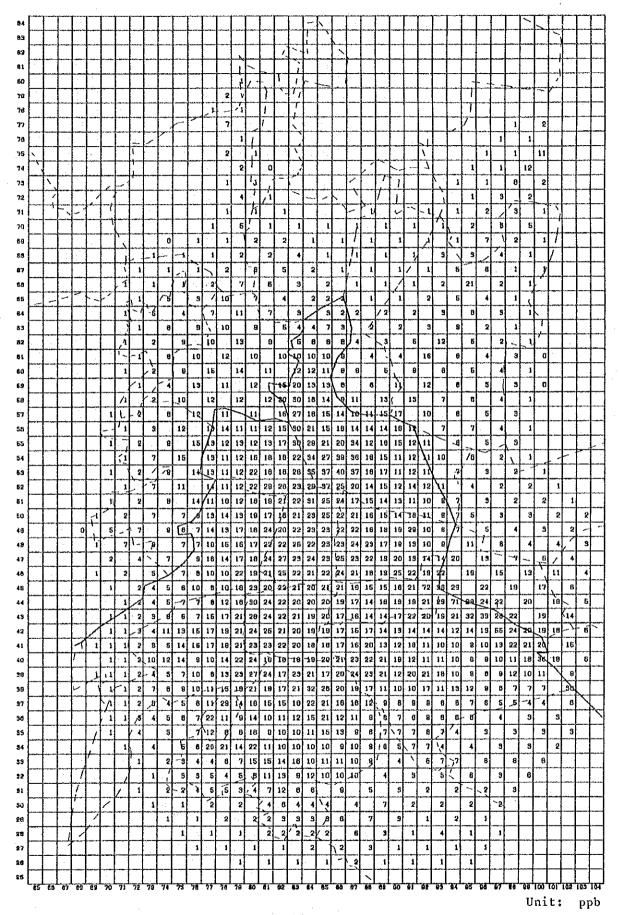


Figure 5.4.13 Contribution of Mobile Sources to SO₂ Concentration (2001, with long-term control measures)

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Figure 5.4.14 Contribution of Automobiles to CO Concentration (2001, With long-term control measures)

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Figure 5.4.15 Ambient Concentration of NOx (All Sources) (2001, With long-term control measures)

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Figure 5.4.16 Contribution of Stationary Sources to NOx Concentration (2001, With long-term control measures)

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Figure 5.4.17 Contribution of Mobile Sources to NOx Concentration (2001, With long-term control measures)

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Figure 5.4.18 Ambient Concentration of NO₂ (All Sources) (2001, With long-term control measures)

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Figure 5.4.19 Contribution of Stationary Sources to NO₂ Concentration (2001, With long-term control measures)

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Figure 5.4.20 Contribution of Mobile Sources to NO₂ Concentration (2001, With long-term control measures)

## PART 6 STATIONARY SOURCE MONITORING AND POLLUTION CONTROL ORGANIZATION

## 6.1 Monitoring and Management of Stationary Air Pollutant Sources

6.1.1 Pollutant Source Inspection and Evaluation Sheets

Tables 6.1.1 through 6.1.6 are examples of inspection and evaluation sheet for stationary air pollutant source used during on-the-spot inspection. An appropriate sheet is used for a specific type of source facility.

Table 6.1.7 is an example sheet for improvement guidance addressed to the person responsible for the facility whose performance has been assessed to be insufficient by the on-the-spot inspection.

# Table 6.1.1 Pollutant Source Inspection and Evaluation Sheet

(Boiler, Heating Furnace, Air Heating Furnace, Furnace for Ceramics, Reaction Chamber, and Other Heating Furnaces)

Date: Inspector:

Location		Representative
Nomenclature	TEL.	Section (Person) in Charge

	Item	Points			Score		
	Is the notification of installation or change made as		1	2	3	4	5
Notifi-	required by the law?	5	 	ļ			L
cations	Is the notification of the operation start made as required by the law?	5					
	Is good quality fuel (kerosene, diesel, A-class heavy oil) used?	5					
Source Facility	Are combustion equipment suitable for the fuels used?	5					
State	Are primary and secondary air inlets in proper state?	5					
	Is the stack height proper? (Is the stack height in compliance with the law or guidance?)	5.					
	Is the burner design satisfactory and the combustion control proper?	3					
	Js the fuel atomization state or coal grain size proper?	3					
	us the heavy oil heating temperature or coal لتي moisture proper?	3					
Combustion)	Is the combustion state (atomization state, flame length) proper?	3					
Operation (Combustion)	To the east blow or even change proper?	3					
Control State	τα Is the wood chipped?	5					
	الله الله الله الله الله الله الله الله	10					
	Are measuring instruments available for combustion control?	5					
	Is smoke and soot concentration measured (according to the Ringelmann method, isokinetic sampling method)?	5		<u> </u>			
	Are there combustion control engineers?	5					
	No treatment facility is necessary because thorough combustion control is made.	20					.  .
Treatment	Treatment facility installed.	5					
Facility	Treatment facility complies with the guidance manual.	10					
	Is treatment facility operating effectively?	10					
Surrounding Conditions	What is the situation surrounding the source?	10					
Generation State	What is the situation of smoke and soot generation?	10					
Total	·	100					

# Table 6.1.2 Pollutant Source Inspection and Evaluation Sheet

(Open-hearth Furnace, Electric Furnace, Metalmelting Furnace, Melting Incinerator Converter) Date: Inspector:

:		·
Location		Representative
Nomenclature	TEL	Section (Person) in Charge
		· · · · · · · · · · · · · · · · · · ·

	Item	Points			Score	-	r
· · · · · · · · · · · · · · · · · · ·	Is the notification of installation or change made as	5	1	2	3	4	5
Notifi- cations	required by the law? Is the notification of operation start made as required	5					
	by the law?						
	Is good quality raw material used?	5					
Source Facility	Is the raw material (chips or various waste) pretreated?	5			L		
State	Is a hood for the treatment facility necessary in view of the configuration of the melting furnace?	5					
	Is the stack height proper?	5					
	Is the treatment facility operating effectively?	10					
Operation	Is there a person responsible for management of the treatment facility?	5					
(Combustion) Control	Is the maintenance and management of the treatment facility proper?	5					
State	Is smoke and soot concentration measured by the legal method?	5					
	Is casting made using a mold or continuous casting?	5					
	No treatment facility is necessary because the smoke and soot emission quantity is small.	20					
	Treatment facility installed.	4					
Treatment	Is the treatment facility in compliance with the guidance standard?	4					
Facility	Is the hood shape appropriate for the melting furnace?	4					
	Is the dust collector available when molding with sand mold or rice bran mold?	4					
	Is the sedimentation tank provided for the washing type treatment facility?	4					
Surrounding Conditions	What is the situation surrounding the source?	10					
Generation State	What is the situation of smoke and soot generation?	10					
Total		100					

# Table 6.1.3 Pollutant Source Inspection and Evaluation Sheet

(Drying Furnace, Asphalt Plant)

Date: Inspector:

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Location	1	Representative	
Nomenclature	TEL	Section (Person) in Charge	

	Item	Points		÷	Score	3	
· · · · · · · · · · · · · · · · · · ·		Points	1	2	3	4	1
Notifi-	Is the notification of installation or change made as required by the law?	5					
cations	Is the notification of operation start made as required by the law?	5					Γ
Source	What is the internal volume (nominal capacity) of the rotary drum?	10		1			
Facility State	Is the fuel proper?	5					
	Is the stack height proper?	5					
	Is the treatment facility operating effectively?	5					Γ
· ·	Is there a person responsible for management of the treatment facility?	5					Γ
Operation (Combustion)	Is the burner well coordinated with the combustion chamber and is the combustion state satisfactory?	5		1			Γ
Control State	Is smoke and soot concentration measured by the legal method?	5					
	Is there any leakage of fine dust from the system?	5					
	Is there any smoke generated at the asphalt kettle?	5					
	Is the treatment facility installed?	5					
Treatment Facility	Is the treatment facility in compliance with the guidance standard?	10					
	Are neutralization and sedimentation tanks provided for washing type treatment facility?	.5					·
Surrounding Conditions	What is the situation surrounding the source?	10					-
Generation State	What is the situation of smoke and soot generation?	10					
Total		100					

Remarks

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### Table 6.1.4 Pollutant Source Inspection and Evaluation Sheet

(Solid Waste Incinerator, Baking Furnace)

#### Date: Inspector:

Location		Representative
Nomenclature	TEL	Section (Person) in Charge

		······································	T			Scor	e	
		Item	Points	1	2	3	<u> </u>	5
Notifi-	requ	he notification of installation or change made as ired by the law?	5					
cations	by t	he notification of operation start made as required he law?	5					
	inci	he nature of solid waste appropriate to the nerator? (Back sheet)	5					
Source Facility		he A-class heavy oil used as the auxiliary ustion fuel?	5					
State	Is t	here a combustion control specialist?	5					
	~	he stack height proper?	5					
	Is t prop		5					
		Is the combustion flow after drying combustion proper and is post-combustion satisfactory?	5					
	inuous/Batch Incinerator	Is the moisture content of the waste relatively even, are the waste lumps small, and is there sufficient void between waste during combustion?	5					
Operation (Combustion)	ous/ cine	Is the waste layer on the stoker thin?	5					
Control State	Continuous/B Type Inciner	Is the waste loading interval proper?	5					
	Conti Type	Is the combustion continuous?	5					
		Is the burning layer well maintained?	5					
	Is s meth	moke and soot concentration measured by the legal od?	5					
		he treatment facility operating effectively?	5					
	No t inci	reatment facility is necessary because the waste neration quantity is small.	20					
Treatment		tment facility installed.	5					
Facility	guid	he treatment facility in compliance with the ance standard?	10					
		he sedimentation tank provided for washing type tment facility?	5					
Surrounding Conditions	What	is the situation surrounding the source?	10					
Generation State	What	is the situation of smoke and soot generation?	10					
Total	,		100		[			

# Table 6.1.5 Pollutant Source Inspection and Evaluation Sheet

(Exhaust Gas and Odor Generation Facility)

#### Date: Inspector:

Location		Representative
Nomenclature	TEL	Section (Person) in Charge

	14	Dadat -			Score	3	
	Item	Points	1	2	3	4	5
Notifi-	Is the notification of installation and addition made as required by the law?	5					
cations	Is there any substantial change made at the site from the approved state?	5					
Source	Is the gas generation facility the closed type reaction (mixing) tank?	20		-			
Source Facility State	Does the open type reaction (mixing) tank have the hood?	10					
state	Is the hood shape appropriate for the gas generation facility?	10					
	Is there a person responsible for management of the treatment facility?	5					
Operation (Combustion)	Is the treatment facility operating effectively?	15					
Control State	Is waste water from the washing facility treated?	5					
	Is there any problem for outdoor operation?	5					
	No treatment facility is necessary because the exhaust gas generation quantity is small.	15					
	Treatment facility installed because the exhaust gas generation quantity is large.	5					
Treatment Facility	Is the treatment facility appropriate to the nature of the exhaust gas?	5					
	Are the filler and the gas~liquid separator proper?	5					
	Is the height of exhaust tower proper?	5					
Surrounding Conditions	What is the situation surrounding the source?	10					
Generation State	What is the state of gas generation?	10					
Total		100					

# Table 6.1.6 Pollutant Source Inspection and Evaluation Sheet

### (Dust Generation Facility)

#### Date: Inspector:

f		
Location	:	Representative
Nomenclature	TEL	Section (Person) in Charge

·	Item	Points	Score						
		roines	1	2	3	4	5		
Notifi-	Is the notification of installation and addition made as required by the law?	5							
cations	Is there any substantial change made at the site from the approved state?	5							
Source Facility State	Is the hood for treatment facility necessary?	20							
	Has the hood been provided for the open type facility?	10							
	Is the shape of hood appropriate for the dust generating facility?	10							
Operation (Combustion) Control State	Is there a person responsible for management of the treatment facility?	5							
	Is the treatment facility operating effectively?	10							
	Is dust scattered from the operation site?	10		1					
	Is the dust generating facility well distanced from neighboring buildings?	5							
Treatment Facility	No treatment facility is necessary because the dust generation quantity is small.	20							
	Treatment facility installed because the dust generation quantity is large.	5							
	Is the treatment facility appropriate to the nature of dust?	10							
	Is the height of exhaust tower proper?	5							
Surrounding Conditions	What is the situation surrounding the source?	10							
Generation State	What is the state of dust generation?	10							
Total		100							

Table 6.1.7 Pollutant Source Facility Improvement Guidance Sheet

Pollutant Source Facility Improvement Guidance Sheet No. Date Name of plant or office Location Name of manager To Mr. (Signature) Inspector We have inspected today the pollutant source ( . • ) of your plant/office and concluded the following items improper. It is requested that you take appropriate improvement measures to prevent pollution. Items 1. 2. 3. The improvement plan in written form should be submitted to the office of the inspector Guidance sheet received by ( Signature ) Name

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- 6.1.2 Preparation of Patrol Inspection/Guidance Plan
  - (1) Preparation and Establishment of the Plan
    - The person responsible for the smoke and soot generating facility (director or section chief) determines the "Guideline for Patrol Inspection and Guidance Plan" every month and provides guidance to each inspection group concerning preparation of the patrol inspection plan and the on-the-spot inspection and guidance plan.

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- 2) Each inspection group prepares the patrol inspection plan and on-the-spot inspection and guidance plan according to the "Monthly Patrol Inspection/Guidance Plan."
- 3) Each monitoring group prepares the Monthly Patrol Inspection/ Guidance Plan by the end of the previous month for approval of the person responsible for inspection (director or section chief).
- (2) Report of Patrol Inspection/Guidance Result
  - 1) Daily Job Report

Each patrol inspection group prepares the daily group job report every day and reports the performance of patrol inspection and guidance to the person responsible for monitoring (director or section chief).

2) Monthly Report

The patrol inspection group prepares the monthly reports on the result of patrol inspection and on the result of on-the-spot inspection and guidance according to the format of the "Monthly Report of Patrol Inspection/Guidance Result."

3) Improvement Report

The improvement report from the plant or office for which the guidance has been provided is presented each time to the person responsible for inspection (director or section chief), along with the reference data.

- (3) Pollutant Source Ledger
  - 1) Method of Preparation

The pollutant source ledger is to be prepared for each plant or office, and the new pollutant source ledger must be prepared immediately for the new plant or office. When there are substantial change in the content, addition of the description beyond the space available, or shortage of the space in the back sheet due to 10 times or more guidance, the pollutant source ledger must be renewed. In this case, the date of renewal is entered and the correction or rewriting of the content made in the new ledger. Both old and new pages form the ledger for the plant or office concerned.

In case of abolishing the ledger, the date of the abolishment is entered and the abolishment stamp provided. This abolished ledger will be retained.

2) Ledger Number

The ledger number must be serial for each district. When the ledger is renewed, the branch number is provided to the new ledger without changing the ledger number.

3) Filing Method

The ledger is classified and filed for each district and town or street, and the index or classification file book must be prepared as required.

- 4) Item and Entry Method
- a. Kind of pollutant
  - a) "Smoke and Soot" refer to soot and other solid particulates or sulfurous acid gas or sulfuric acid anhydride produced during combustion of fuel or use of electricity as a heat source.
  - b) "Dust" refers to those solid particulates produced through other than combustion of fuel or use of electricity as a heat source.

c) "Gas" refers to the gases, odor, and offensive odor other than "smoke and soot" and "dust."

b. Cover sheet (Surface)

- a) Notification or approval of the plant and office Enter the date of approval or notification as required by the law as well as the plant ledger number and encircle either "approved" or "not approved."
- b) Location, name, responsible person
   Enter the location, name, phone number, and name of responsible person for the plant or office.
- c) Section (person) in charge
   Enter the name of the section (or person) in charge of
   pollution control in the plant or office.
- d) Land use category

Enter the category of land use according to the Building Standard Law.

e) Industry group

Enter the name of industry group according to the subgroup of the industry classification.

- f) Principal productEnter the name of principal product of the plant or office.
- g) Lot area, operation site area, number of employees Enter the lot area, operation site area, and number of employees of the plant or office.
- h) Outline of neighboring area
   Classify the neighboring area into 5 categories: houses
   concentrated, stores concentrated, factories concentrated,
   houses and stores mixed, and houses and factories mixed.
   And describe the details as required.
- i) Smoke and soot

Source facility: Enter the name, size, and number of the facility according to the Smoke and Soot Regulation Law and the Code of Smoke and Soot Prevention.

Fuel: Enter the kid of fuel used, sulfur content, and consumption.

Dust collector: Classify the dust collector into 6 types: gravity, inertia, centrifugal, washing, filter, and electrostatic. When two or more types are used, enter each type. Enter the size of dust collector by specifying the capacity in "m³/min (at °C)" or "Nm³/min."

Stack: Enter the structure, height, and diameter of the stack used. When one dust collector or one stack deals with smokes from two or more smoke generating facilities, enter the treatment method for each facility.

Operating time: Enter the normal operating time. If the facility is not operated regularly, enter the operating time and frequency.

Seasonal variation: Enter the seasonal operational variation, if any, in one year.

Notification: Enter the date of notification as required by the Smoke and Soot Regulation Law and the Code of Smoke and Soot Prevention, and the facility number.

Remarks: Enter the quantity of soot and dust collected by the dust collector and reference items (treatment method, etc.).

j) Dust and gas

Enter according to the procedure described for smoke and soot.

bate of preparation of the ledger
 Enter the date when the pollutant source ledger is newly prepared.

1) Date of change

Enter the date when the content of the ledger is to be changed, and specify the portion of change.

m) Renewal Renew the ledger when the ledger need be changed, added, or rewritten because of substantial change in the content,

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addition of content beyond the space available, or shortage of the space in the back sheet due to 10 times or more guidance. Enter the date and reason of renewal.

- n) Process flow sheet Enter the flow sheet to specify the pollutant source portion, degree of pollutant emission, and pollutant removal portion.
- c. Back Sheet
  - a) Date of guidance Enter the date of providing the guidance.
  - b) Assessment
     Enter the assessment or evaluation score for each type of pollutant.
  - c) Content of guidance
     Enter specifically the unsatisfactory items and guidance
     items during the on-the-spot inspection.
  - d) Guidance slip number and date of issue
     Enter the number and date of issue of the guidance slip.
  - e) Content of report

Enter the content of the improvement report submitted by the plant or office for which guidance has been provided.

### 6.2 Pollution Control Organization in Tokyo Metropolitan Government

Table 6.2.1 shows number of personnel, as of October 1972, in each organizational unit of Pollution Bureau, Tokyo Metropolitan Government, classified by specialized field of personnel.

$\sim$		<b>1</b>		Science and Engineering Technician, Labor													1								
Speciality Organizational Unit		Management	nanagemen E Clerk	Mechanical eng.	Archicecure [.]	Electric eng.	Civil eng.	Chemical eng. and Chemistry	Environmental eng.	Water quality	Fisheries	Health inspection	Agricultural	Isocope	Surgeon	Veterinary	Health nurse	(Sub-total)	Pacrol	Driver	Assistant clerk	Ноткег	(Sub-total)	Part-cimer	Tocal
Dept	Planning	9 9	5 23	×	¥.	13	2	2	្រំ 1		ii.	ž	~	H H	š	N.	포	ت 5	a	-		ri T		<u>a</u> i	28
Dept. Tra	ffic Disaster	8	11									<u> </u>										<u> </u>			11 (6)
Preventio	n General Affairs	(4)	(6) 37					3		1				+				4		1	<u> </u>		1		42
Dept. General	Consultation	3	18			-			<del>  .</del> -			<u></u> +,-	h		+	<u> </u>						<u> </u>		<del> </del>	18
Affairs	(Sub-total)	3	55				┝	3		1							<b> </b>	4		1		1	1		60
	Assistance	2	17	1	1		┼	1		-		<u> </u>		<u> </u>			╂──	2	3	2			5	†	24
Dept. Pollution	Location	3	10	4	3	┼──			1							†	<u> </u>	8	2		<u> </u>		2	<b> </b>	20
Prevention Assistance	(Sub-totel)	5	27	5	4			<u>}</u>	1		<u> </u>						ł	10	5	2			7	<u>+</u>	44
	Quidance	2	25	<u> </u>																2		<b> </b>	2		27
	Regulation	7		5	<u> </u>	<u> </u>		9	3		1	<u> </u>			<u>+</u> -		<u> </u>	18							27
Dept. Follution	Standards High Pressure		6	15		1		12	<u> </u>						<u> </u>			28	-	1	1		2	1	37
Control and	Gas Explosive/		3	2		4		6			<u> </u>	<u> </u>			┼──			12					1	<u> </u>	16
Guidance	Electricity (Sub-total)	11	43	22	ļ	5		27	3		1		·					58		3	2		5	1	107
	Inspection					Ļ		3	1	1								8		20	1	·	21		43
	Managewent	2	14	2	1	- <u>,</u>		- 3 10	4	··	1		<u> </u>	<b> </b>				22	5				5		37
	Monitoring	2	10 5	2	1	1		10			1							9	4		<u> </u>		4		18
	Inspection No.1	1						5	1		1							11	3				3	·	17
Dept. Inspection	Inspection No.2	1	3	1	1	1	<u> </u>	7						┝	<u> </u>			11					3		18
	Inspection No.3 Special	1	4	1	1	1		——i	1			 				<u> </u>		7	4				4		15
	Inspection	1	4		2			5										8	-						9
	Exectination	1	1		<u> </u>			6		1			1				76		20	1		40		157	
	(Sub-total)	9	41	10	6.	3	<b></b>	42	8	3	3		}		<u> </u>		70	19					3	<u> </u>	
	General Affairs	2	13		·												-	-		2		1			16 6
	General Study	1	6					2							1	2		6				1	,	<u> </u>	7
	Health Atmosphere			3		<u> </u>		15	4			2	1	 1	-			26						i	26
Pollution Research	Water Quality	י ו					1			2	3	-		· · ·				13	2				2		15
Institute	Roise			3	2	1			2										*						9
-	Land Subsidence							1	<u> </u>																
	(Sub-total)	6	19	6	2		1	25	6	2	3	2	1	1	1	2		54	2	2		2	6		79
<u> </u>	Guidance	2	14	ŀ		2		5										• 7		6		-	6		27
Tame District	Inspection	1	7	2	1	2		10	4									19	- 1				1	┟┅╍╍┥	27
Pollution Control	Examination		, 1					7			1							.8					. 1		10
Office	(Sub-cotal)	4	22	2	1	4		22	4									34	2	6					64
<b>-</b>	Total	55	241	45	13	13	3	121	23	6	8	2	2	1	1	2	1	241	28	34	3	2	67		550
L						<u> </u>				<u> </u>			<u> </u>			-		.41	20		3		07	4	,,,,

# Table 6.2.1 Personnel Arrangement in Pollution Bureau, Tokyo Metropolitan Government (As of Oct. 1972)

Remark: Numeral in ( ) in Dept. traffic disaster prevention is the number of the employees concurrently assigned in other departments.

Source: Outline of Works in Pollution Bureau of Tokyo Metropolitan Government

