جهاز شئون البيئة المشروع المصرى للحد من التلوث

دليل الرصد الذاتى صناعة الحلوى

ینایر ۲۰۰۳

۲-۱-۱ Clean-In-Place (CIP)

EMS Mass balance (

Emission factors ()

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(EPAP)

(FINNIDA)

EPAP FINNIDA

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(GIM EPAP-2002)

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EPAP

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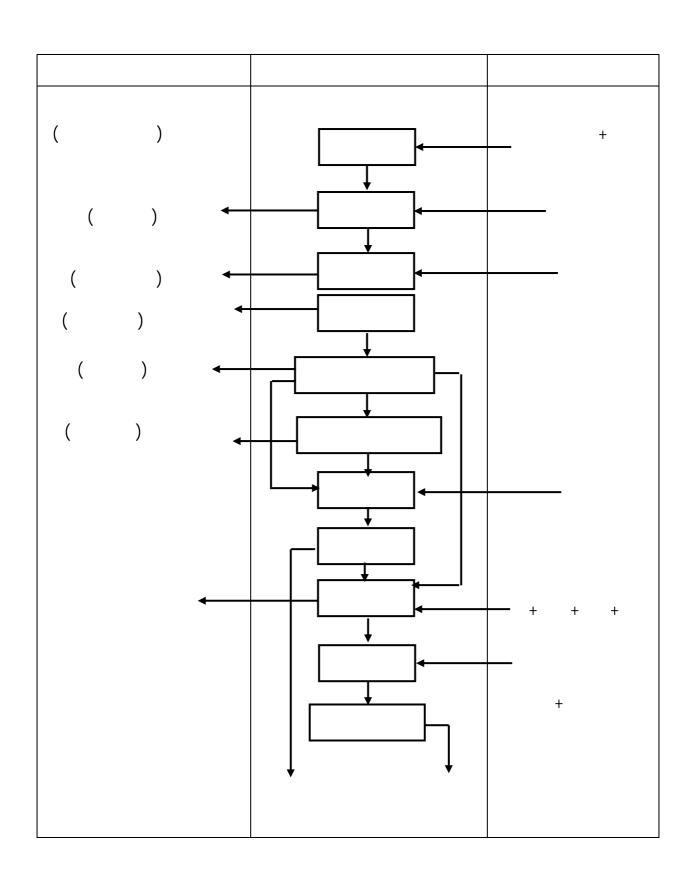
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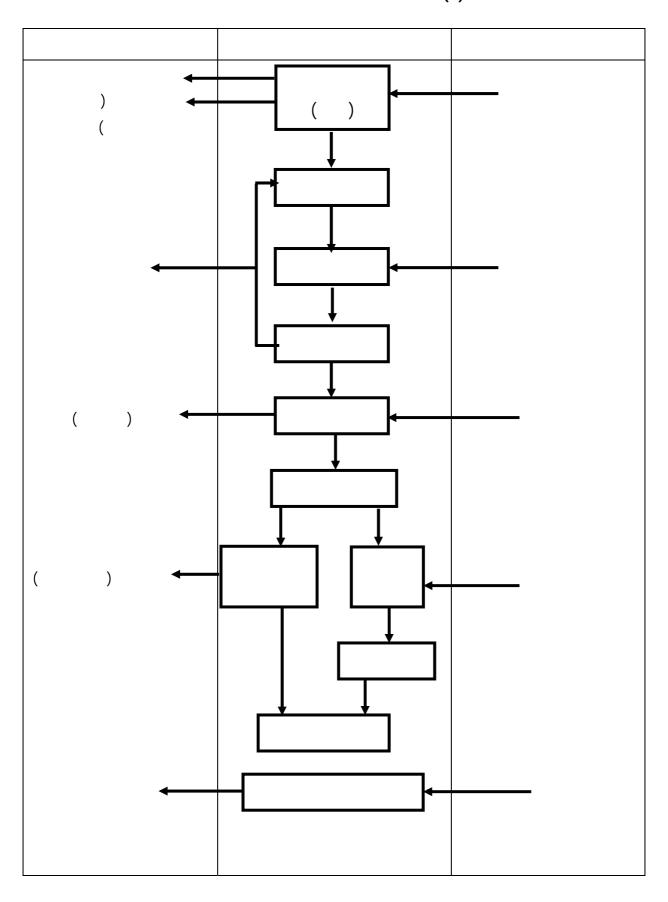
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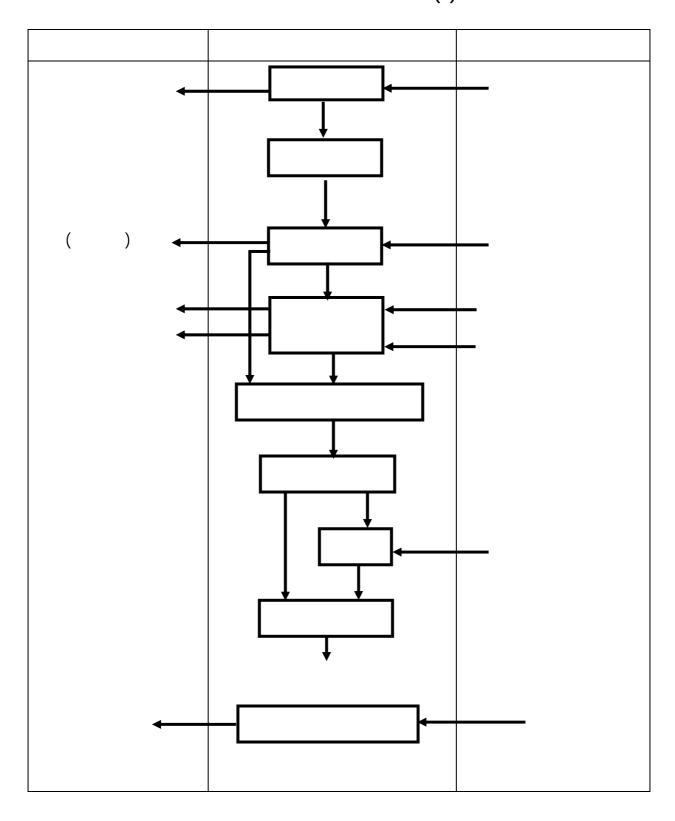
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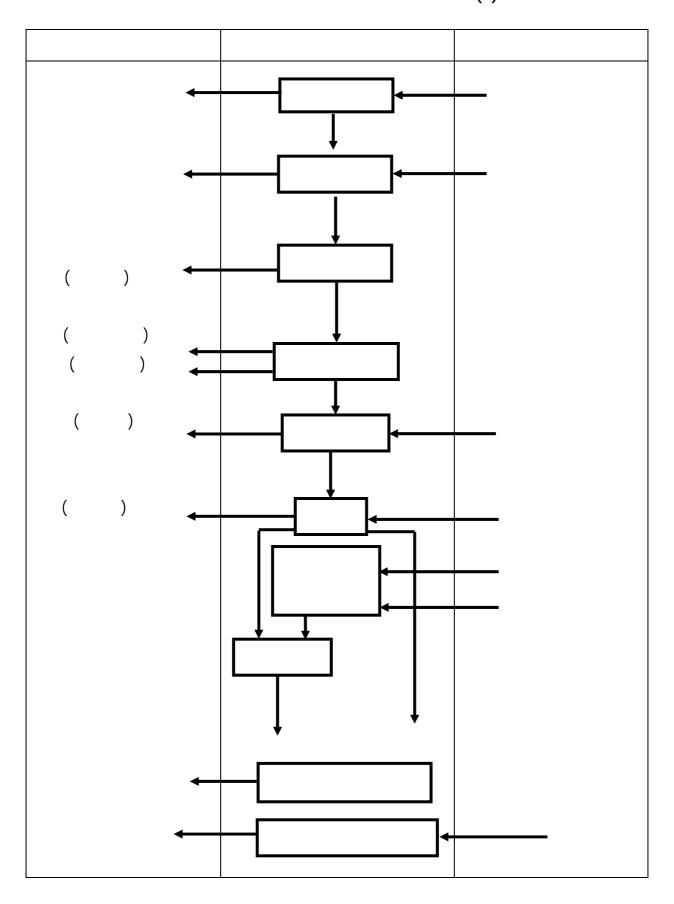
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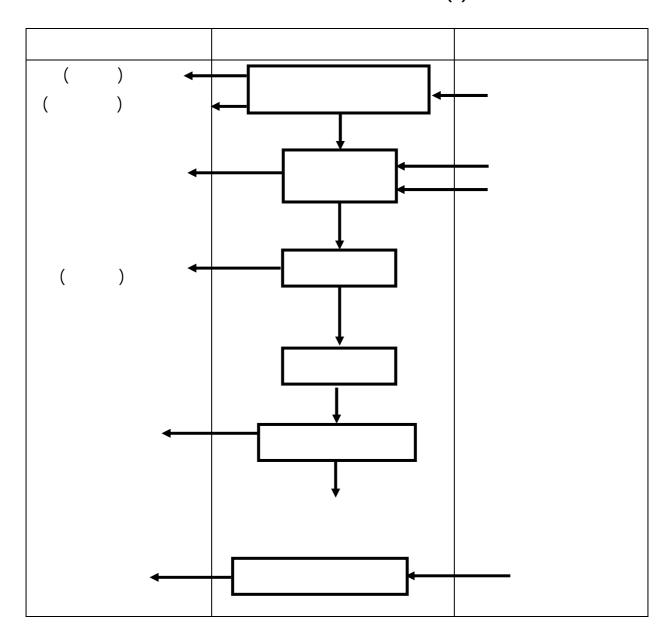
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extruder
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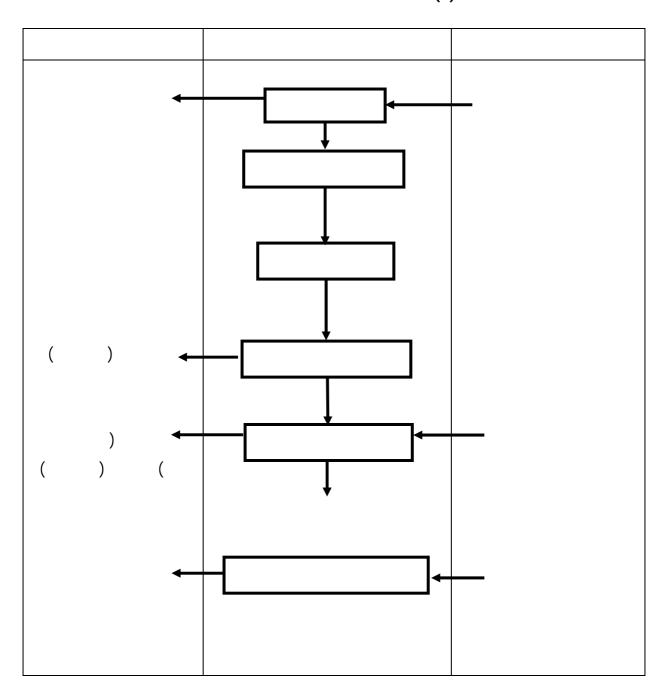
٢-٢-٧ خط إنتاج الخبز والكعك

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Clean-In-Place (CIP)

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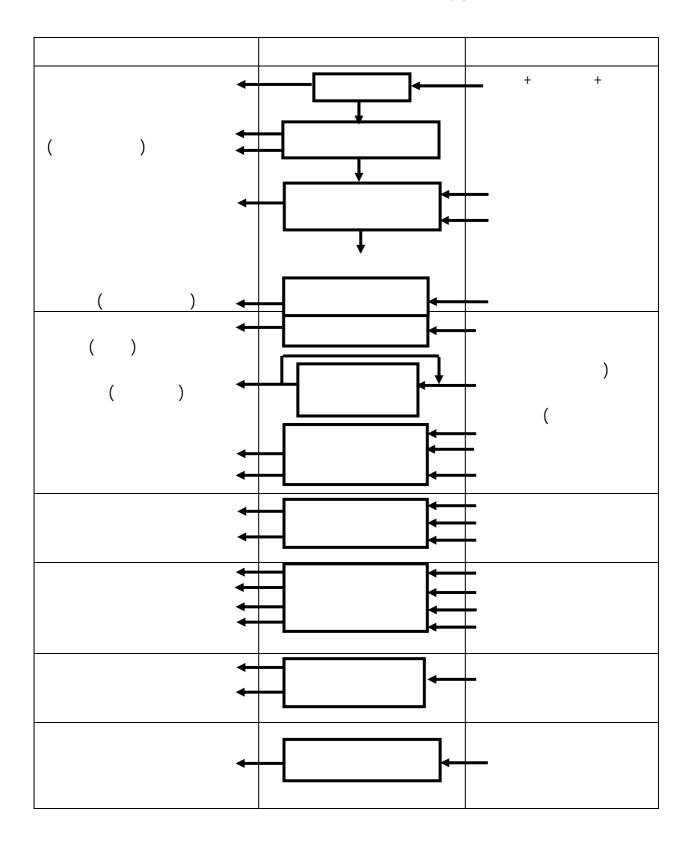
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(in-plant modifications)

(in-process modifications)

(End-of-pipe -)

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      (DAF Unit)
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(Trickling filters)
. (Rotating biological contactors)

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(SMS)

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Trends

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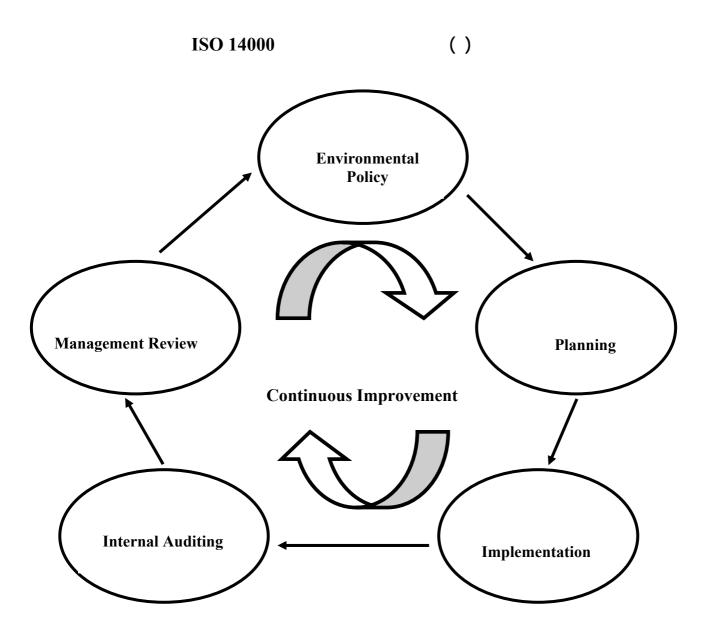
(EMS) - -

ISO 14000''"

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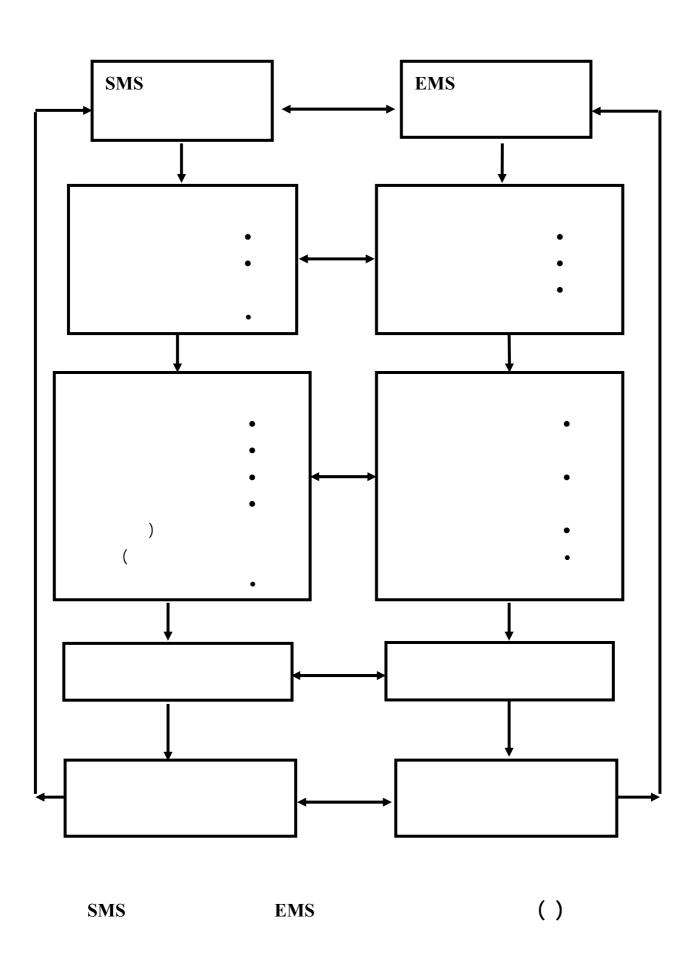
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aspects objective .(target .(% (internal auditing)



(SM) :(EMS) ISO 14000 (SMS) end-of-) (pipe (...

.SMS EMS



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.(end-of-pipe)
Cost -benefit analysis

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(QA/QC) .(

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.QC/QA

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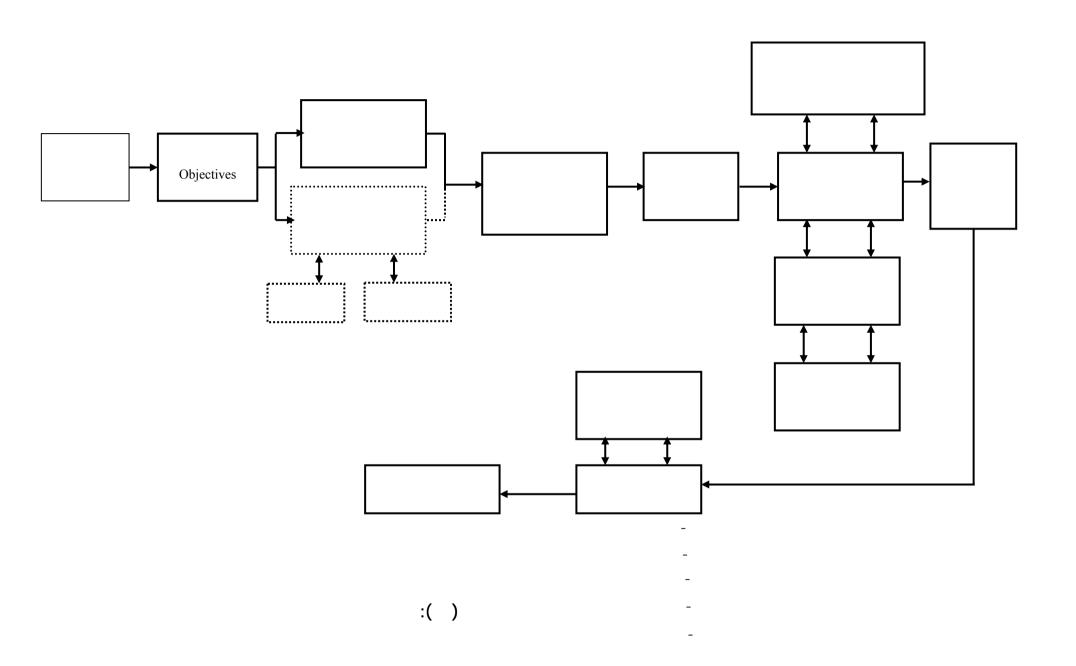
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(BOD)

(COD)



:(EPAP trends

£_V trends timeaveraged means .frequency distribution daily mean value .(

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.Mass balance

.Emission Factors

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% % .(corrosive substances)

surrogate parameters .	
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.(VOCs)	
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Emission factors
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Cl, CO₂, CO, SO₂, :

NOx

.CO TRS, SOx: () / (Q) (TSS) (C) . (CODCr) .(BOD₅) / (N) mS/m

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Venturi

(grab sample)

TSS,COD BOD

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(BOD, COD)

(gravimetric) (Dough preparation) (gravimetric))roller mills(

						(gravimetric)			
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					Dough	Kneading

 QA/QC

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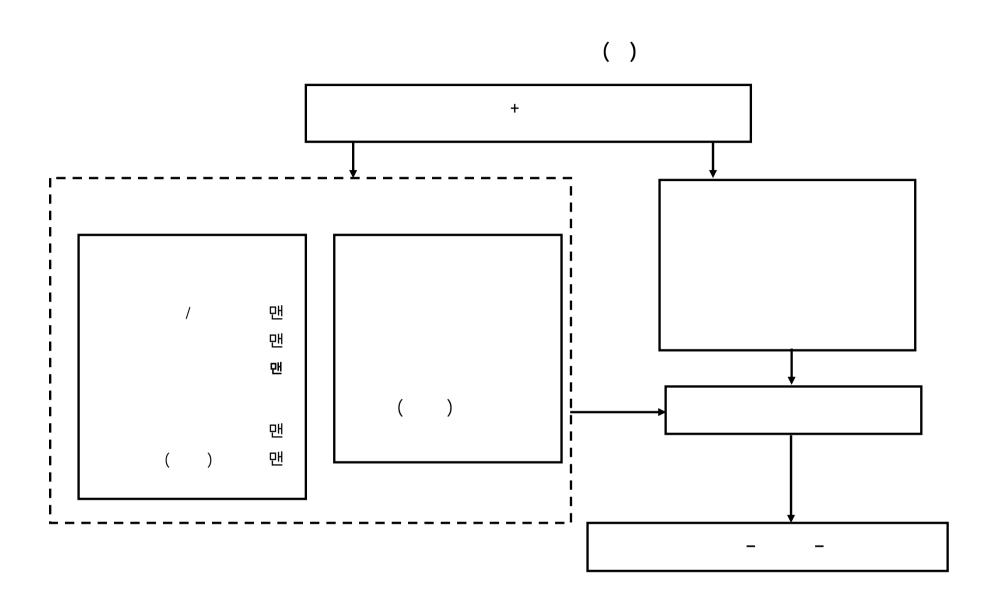
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Reliability -

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Comparability:

Data Production Chain:

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:(/) :(/) :(%O2 ppm /): :(/)) Residence time :(: **(**C**)**

Quality Control and Quality Assurance

Certification

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.Certification and Accreditation

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.(mg/l m3/d kg/d

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1- "Monitoring and Control Practices of Emissions in Pulp and Paper Industry in Finland", 1998, Saarinen K., Jouttijarvi T. and Forsius K., Saarinen K., Finnish Environment Institute

2- "Data Production Chain in Monitoring of Emissions", 1999, Saarinen K, Finnish Environment Institute.