

# IAMMS Advantages

- Provides the Tools Necessary to meet the Documentation Requirements of the new TCEQ regulation 106.263 Routine Maintenance, Start-Up, and Shutdown of Facilities, the ISO 9001:2000 Quality Management Standard, and some Documentation Requirements of the ISO 14001 Environmental Management Standard.
- Easy to import existing data from legacy systems such as SAP, Maximo, etc.
- Allows users to duplicate maintenance activity emission screens automatically to similar equipment avoiding manual entry of similar data.
- Technology
  - Utilizes state of the art Client Server Technology
  - Utilizes Oracle, Sybase, Microsoft, XDB, or Watcom databases.
- Reporting Features
  - Maintenance Activity Emissions by:
    - Specific Equipment,
    - Equipment Types,
    - Specific Units, and
    - Specific Sites.
  - Automatic or Manual e mailing of reports.
  - Maintenance Schedules
  - Control Charts
  - Customized Reporting Tools
  - Maintenance Comments Search
- Provides security of data with management selectable levels of access.

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**CryWon Technology**

**Maintenance Activity Emission  
Documentation**

**IAMMS**

**Meeting the Needs of the New Millennium**

Available with  
Voice Command

## Maintenance Activity Emission Documentation

The new version of IAMMS includes custom screens to document maintenance activity emissions. This enhancement is in response to the new TCEQ regulation 106.263 Routine Maintenance, Start-Up, and Shutdown of Facilities. This new regulation requires facilities to identify and document the following for all maintenance, start-up, or shutdown activities and temporary maintenance facilities:

- the type and reason for the activity or facility construction,
- the processes and equipment involved,
- the date, time, and duration of the activity or facility operation, and
- the air contaminants and amounts which are emitted as a result of the activity or facility operation.

## IAMMS provides the solution.

IAMMS now allows users to document emissions associated with maintenance, start-up, or shutdown activities on all types of equipment. Once the emission information is entered into IAMMS it is automatically documented each time the maintenance activity, and associated equipment, is logged into IAMMS. Using IAMMS' unique easy entry system, called *Quick Log*, users can quickly document up to 200 equipment specific maintenance activities and their associated emissions into the IAMMS database.

Reporting - IAMMS has new reports that allow users to quickly report on emissions associated with:

- specific equipment,
- equipment types,
- specific units, and
- specific sites.

IAMMS automatically alarms when reportable quantities are met or exceeded. IAMMS also allows automated or manual e-mailing of all reports.

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The screenshot displays the IAMMS software interface, which is used for managing maintenance activities and monitoring emissions. The main window is titled "Instrument / Analyzer Maintenance Management System".

**Maintenance Log A-11**

Service Date	Down Time	Repair Time	Tech Id	Calibrate Cylinder 1 / 2	Low / High	Symptom Code	Fault Code	Action Code	Emissions Monitoring Type	Component	Quantity
07/30/1999	1.00	1.00	ZJLS56	AL3000		Routine maintenance			Air	Ethane Butane	1001 120
07/12/1999	1.00	1.00	ZJLS56	AL3000		Routine maintenance					
06/23/1999	1.00	1.00	ZJLS56	AL3000		Routine maintenance					
06/29/1998	1.00	1.00	IAMMS	AL3000		Preventative maintenance					
04/20/1998	1.00		IAMMS	AL1028	100	501					

**Emission Monitoring Report**

Report Criteria:

- From Date: 01/01/2000
- To Date: 09/24/2000
- Tag Number: [ ]
- Category / Unit: Acid Plant, Alky #2, Alky #3, Analyzer Shop
- Equipment Type: [ ]
- Instrument / Analyzer Type: [ ]
- Secondary Grouping: [ ]

**BP Amoco Texas City Refinery**  
Emissions Monitoring Report  
From: 01/01/2000 To: 09/24/2000  
Alky #2

Equipment Type	Instrument/Analyzer Type	Tag #	Date	Down Time	Repair Time	Comments	Emissions Monitoring Type	Component	Quantity
Analyzer	Gas Chromatograph C101 DVHD		07/30/2000	1.00		WORKING ON SAMPLE TUBING WITH PIPE FILTERS.	Air	Ethane Butane	1001 120