

MAY 17, 1989

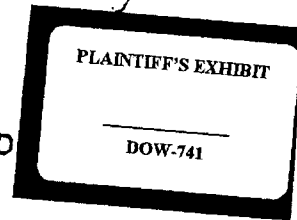
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MAY 19 1989

INDUSTRIAL HYGIENE SERVICES



RE: DOW ELANCO - DUE DILIGENCE AUDIT

HERE IS A QUESTIONNAIRE TO WHICH ELI LILLY PEOPLE MAY BE REFERRING DURING
THEIR VISIT TO YOUR RESPECTIVE FACILITIES. F.Y.I. - DON'T HAVE TO FILL OUT.
PLEASE SHARE WITH MEDICAL.

ST0038086

REGARDS,

ARNIE SCHAFFER

222
10/28/87

ELI LILLY AND COMPANY
INDUSTRIAL HEALTH AND SAFETY
INTERNAL CONTROLS QUESTIONNAIRE

ST0038087

10/28/87

FACILITY PROFILE

Primary operations and products _____

PRIMARY OPERATIONS AND PRODUCTS

	<u>YES</u>	<u>NO</u>		<u>YES</u>	<u>NO</u>
FACILITY OPERATIONS			FACILITY MATERIALS		
Solvent Unloading	___	___	Solvents	___	___
Bulk Dry Raw Materials	___	___	Acids	___	___
Solvent Recovery	___	___	Bases	___	___
Drum Acids/Bases Handling	___	___	Animal Products	___	___
Storage Tank Cleaning	___	___	AG Products	___	___
Process Reactors	___	___	Antibiotics	___	___
Freeze Drying	___	___	Blood Products	___	___
Drying	___	___	Reactive Raw Materials	___	___
Milling	___	___	Oncolytics	___	___
Sieving	___	___	Highly Potent Compounds	___	___
Bag Emptying	___	___	Radiological Hazards	___	___
Hand Scooping	___	___	Research Compounds	___	___
Bag House Changing	___	___	Allergens	___	___
Mixing	___	___	Extremely Toxic Substances	___	___

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	<u>YES</u>	<u>NO</u>		<u>YES</u>	<u>NO</u>
FACILITY OPERATIONS (cont.)			FACILITY MATERIALS (cont.)		
Bagging	___	___	OTHER		
Bulk Haz. Chemical Storage	___	___	_____	___	___
Recombinant DNA Work	___	___	_____	___	___
Nitration	___	___	_____	___	___
Oxidation	___	___	_____	___	___
Exothermic Chemical Steps	___	___	_____	___	___
Hydrogenation	___	___			
Halogenation	___	___			
Alkylation	___	___			
Amination	___	___			
Condensation	___	___			
Drum Filtering	___	___			
Centrifuging	___	___			
Fermentation	___	___			
Sterilizing	___	___			
Tableting	___	___			
Capsule Filling	___	___			
Solids Incineration	___	___			
Liquids Incineration	___	___			
Chemical Labs	___	___			
Biological Lab	___	___			

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YES NO

FACILITY OPERATIONS (cont.)

High Noise Area	___	___
Asbestos Insulation	___	___
Radiological Hazards	___	___
Robotics	___	___
LP Gas Usage	___	___
Granulation	___	___
Sterile Filling	___	___
Gas Scrubbers	___	___

OTHER

_____	___	___
_____	___	___
_____	___	___
_____	___	___
_____	___	___

ST0038090

RESPONSIBILITY

1. Who at the facility is responsible for:

a. directing the health and safety program at the facility?

b. specifying and monitoring the use of respirators and other forms of personal protection (i.e., hearing protection, protective garments, and gloves)?

c. conducting air monitoring programs for airborne chemicals?

d. conducting audiograms and other medical surveillance programs?

e. designing local exhaust and other engineering controls to minimize chemical exposure?

f. hazard communication programs including material safety data sheets, labeling, and training?

g. internal health and safety program periodic review or auditing?

h. hazard recognition (fault tree analysis) in the start-up, or revision of processes, and facilities?

RESPONSIBILITY (continued)

- i. emergency plans? _____

- j. investigation, review meeting, reporting and follow-up
accident and near-miss incidents? _____

- k. injury/illness recordkeeping and statistical reporting _____

- l. emergency response teams? _____

- m. fire prevention and protection? _____

- n. process and equipment safety programs? _____

- o. hazard communication? _____

- p. industrial hygiene? _____

- q. safety and health training? _____

- r. occupational medicine? _____

RESPONSIBILITY (continued)

		<u>YES</u>	<u>NO</u>	<u>N/A</u>
2.	Does the line management staff responsible for safety and health routinely meet to discuss current issues?	___	___	___
3.	Is there an active plant site safety committee?	___	___	___
	a. who are the members? _____			

	b. how often do they meet? _____			

4.	Are appointed safety co-ordinators and representatives given sufficient time and management support?	___	___	___
5.	Are new employees given formal indoctrination to hazards and protective measures?	___	___	___
6.	Do adequate procedures exist for controlling confined space entry, use of open flame, lone operators, line breaking, lockout and tag out, and for truck driving?	___	___	___
7.	Is adequate training given in the above areas?	___	___	___
8.	Have standards of performance for supervisory and management personnel in specific elements of the program been established?	___	___	___

ST003093

HAZARD RECOGNITION

		<u>YES</u>	<u>NO</u>	<u>N/A</u>
1.	Is toxicity and hazard information requested from vendors and other sources?	—	—	—
2.	Is this hazard information made readily available to employees?	—	—	—
3.	Are hazards anticipated in design and planning?	—	—	—
4.	Is an up-to-date list of hazardous materials kept in a place accessible to employees?	—	—	—
5.	Are Material Safety Data Sheets readily accessible to employees?	—	—	—
6.	Is there a written hazard communication program?	—	—	—
7.	Is the written program available to employees?	—	—	—
8.	Are there any formalized programs to evaluate chemical process reactivity hazards such as HAZOP'S, Fault Tree Analysis, or System Hazard Analysis?	—	—	—
9.	Is there a procedure for reporting spills or chemical releases for emergency response?	—	—	—
10.	Are planned general inspection conducted by line management and/or safety personnel?	—	—	—
11.	Is there an accident investigation procedure which requires all serious accidents and near miss incidents to be investigated and reported?	—	—	—

ST0033094

HAZARD EVALUATION

		<u>YES</u>	<u>NO</u>	<u>N/A</u>
1.	Are levels of air contaminants in the workplace monitored on a personal monitoring program?	—	—	—
2.	Are they within allowable guidelines?	—	—	—
3.	Are noise levels monitored and within guidelines?	—	—	—
4.	Is there a targeting or prioritizing of monitoring?	—	—	—
5.	Is equipment calibrated and maintained?	—	—	—
6.	Are monitoring records kept and trends evaluated?	—	—	—
7.	Are monitoring results provided to employees and management?	—	—	—

ST0038095

CONTROL MEASURES

		<u>YES</u>	<u>NO</u>	<u>N/A</u>
1.	Are engineering control designs effective, are they validated by air monitoring?	—	—	—
2.	Are engineering controls used consistently by employees?	—	—	—
3.	Is there a trigger for periodic maintenance on control designs?	—	—	—
4.	Is the employee responsible for designing local exhaust control specially trained?	—	—	—
5.	Is local exhaust used instead of dilution ventilation for contaminant control?	—	—	—
6.	Are fume hoods and local exhaust hoods measured for performance by testing the face velocity?	—	—	—

ST0030096

PERSONAL PROTECTION

NOTE: Forms of personal protection, i.e., respirators, gloves, garments, boots, hearing.

		<u>YES</u>	<u>NO</u>	<u>N/A</u>
1.	Is there a written program for respiratory protection?	—	—	—
2.	Is personal protective equipment specified in SOP's and process tickets?	—	—	—
3.	Has the employee which is responsible for specifying respirators and other forms of personal protection been specially trained?	—	—	—
4.	Is employee training on personal protective equipment given on a regular basis?	—	—	—
5.	Is respirator fit-testing conducted and are records maintained?	—	—	—
6.	Do employees use personal protection consistently?	—	—	—
7.	Is personal protection readily available?	—	—	—
8.	Are gloves selected for specific chemical applicants?	—	—	—
9.	Does the training program include respiratory and other equipment limitations?	—	—	—

ST0038097

EMERGENCY RESPONSE

	<u>YES</u>	<u>NO</u>	<u>N/A</u>
1. Is spill response containment, deactivation and cleanup equipment readily accessible?	—	—	—
2. Are encapsulating suits and air-paks readily accessible?	—	—	—
3. Are emergency responders specially trained in spill and emergency response on a regular basis?	—	—	—
4. Are responders medically capable of responding?	—	—	—
5. Is there a response plan for off-site emergencies?	—	—	—

ST0000098

MEDICAL MONITORING AND PROGRAM

YES NO N/A

1. Do employees in manufacturing and production areas receive an annual periodic exam?

— — —

2. Is there a nurse and/or professionally manned first aid facility?

— — —

3. Is there an assigned industrial physician?

— — —

Explain your medical coverage: _____

ST003999