POLY C SAFETY MEETING

INDUSTRIAL HYGIENE

NOISE	-	CONSEQUENCES OF OVEREXPOSURE
		RESULTS OF AUDIO DOSIMETER TESTS FOR 1982
		1982 AREA NOISE SURVEY
ISOPAR E	-	CONSEQUENCES OF OVEREXPOSURE
		RESULTS OF PERSONAL BREATHING ZONE TESTS FOR 1982
DOWTHERM A	-	CONSEQUENCES OF OVEREXPOSURE
		RESULTS OF PERSONAL BREATHING ZONE TESTS FOR 1982
NUISANCE DUSTS	-	CONSEQUENCES OF OVEREXPOSURE
		RESULTS OF PERSONAL BREATHING ZONE TESTS FOR 1982
OCTENE-1	-	CONSEQUENCES OF OVEREXPOSURE
HCL ANHYDROUS	-	CONSEQUENCES OF OVEREXPOSURE
CHLORINE	-	CONSEQUENCES OF OVEREXPOSURE

SAMPLING SCHEDULE FOR 1983

FILM - A BREATH OF AIR

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RESULTS OF AUDIO DOSIMETER TESTS

Job	Number of Samples	Average Potential Exposure	Highest Potential Exposure
O.T.	12	48%	128%
Reaction S.O.T.	16	56%	120%
Outside Lab S.O.T.	15	26%	70%
Inside Lab S.O.T.	4	1%	2%
Control Room O.S.	4	3%	4%
Extra O.S.	4	14%	18%
EDO O.T.	2	19%	37%
EDO S.O.T.	1	17%	17%
EDO O.S.	1	23%	23%
Shift Supervisor	3	9%	14%
Technical	3	6%	12%
Secretary	1	1%	1%

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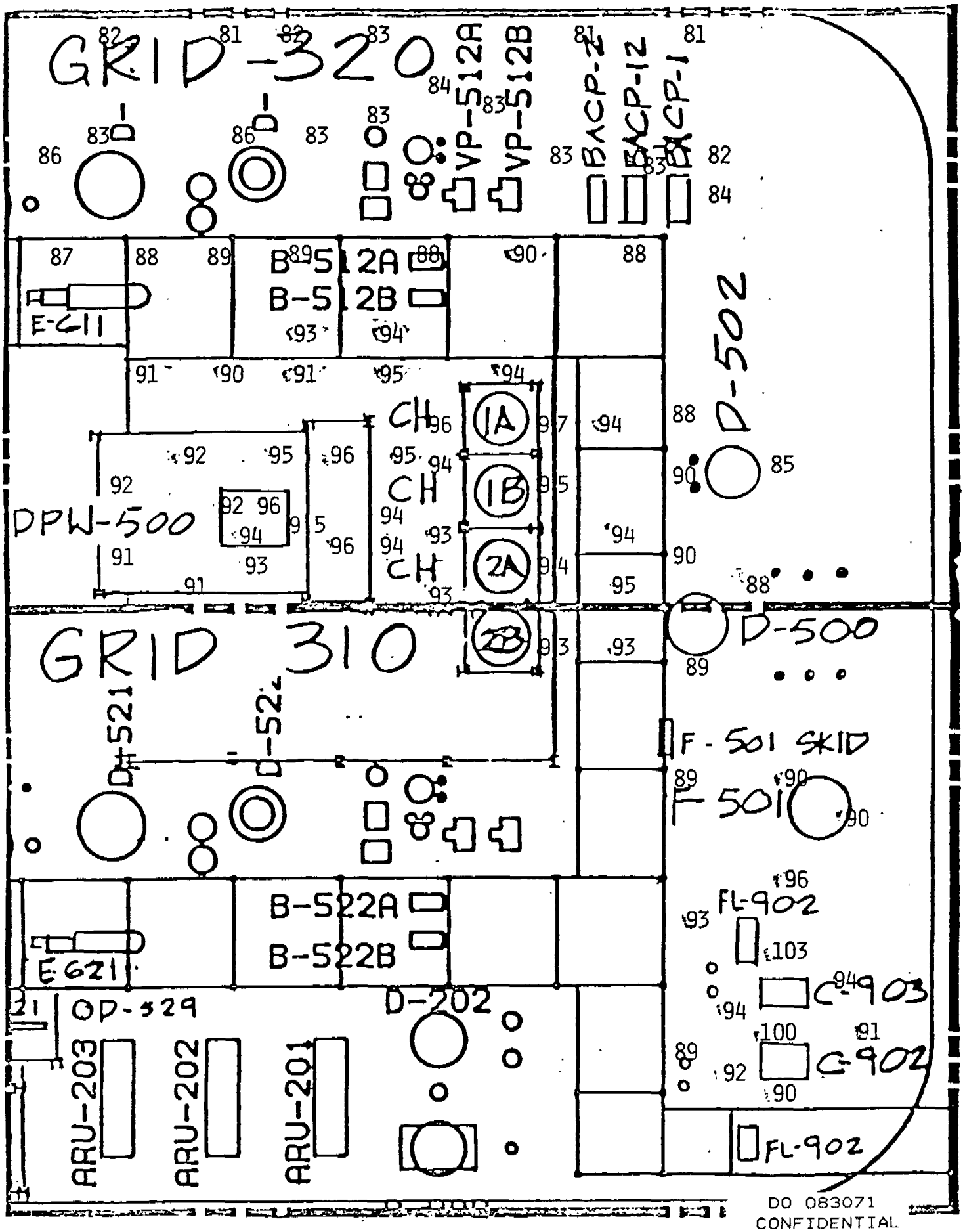
POLY C AREA NOISE LEVELS IN db(A)



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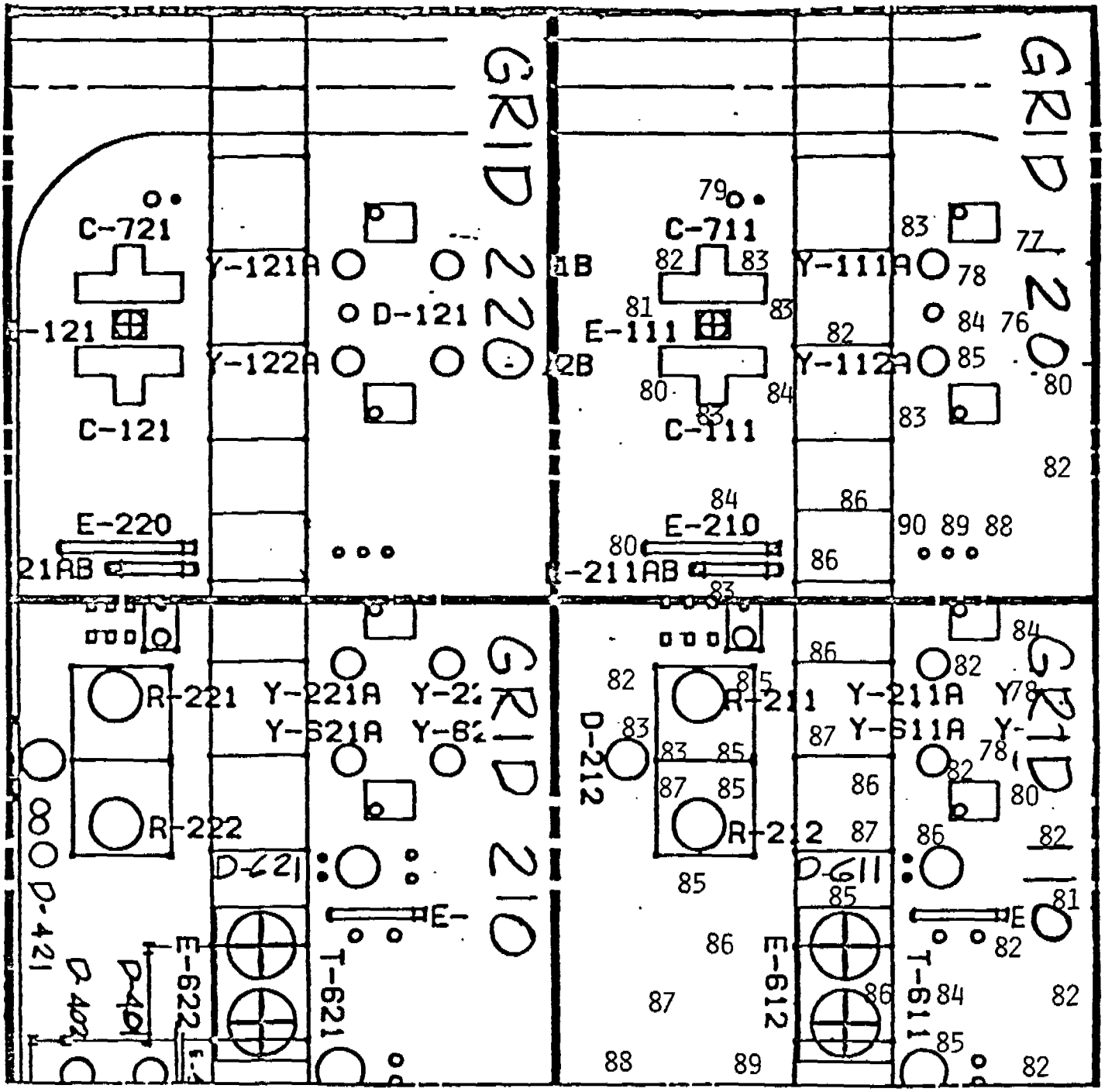
POLY C AREA NOISE LEVELS IN db(A)



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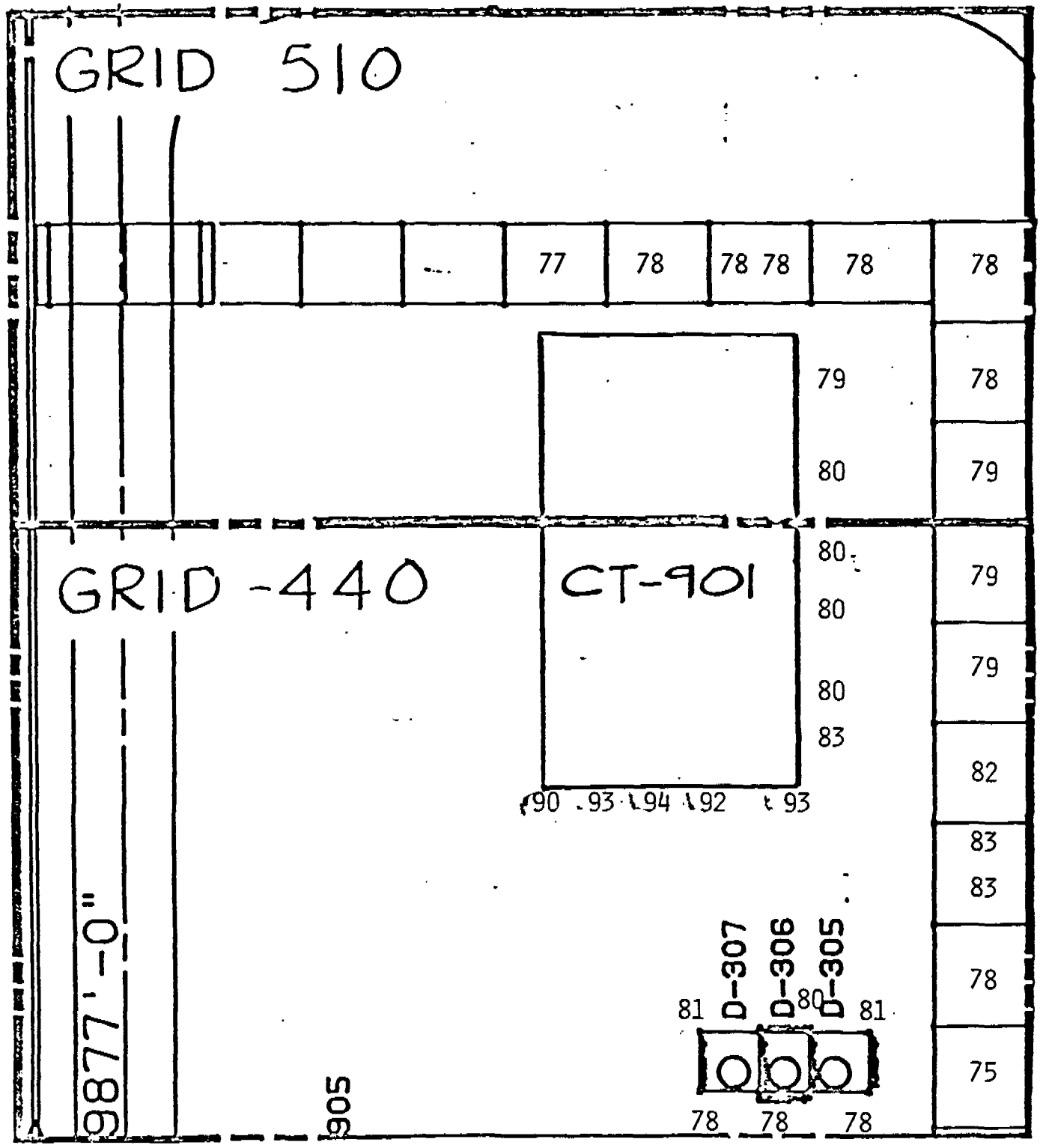
POLY C AREA NOISE LEVELS IN db(A)



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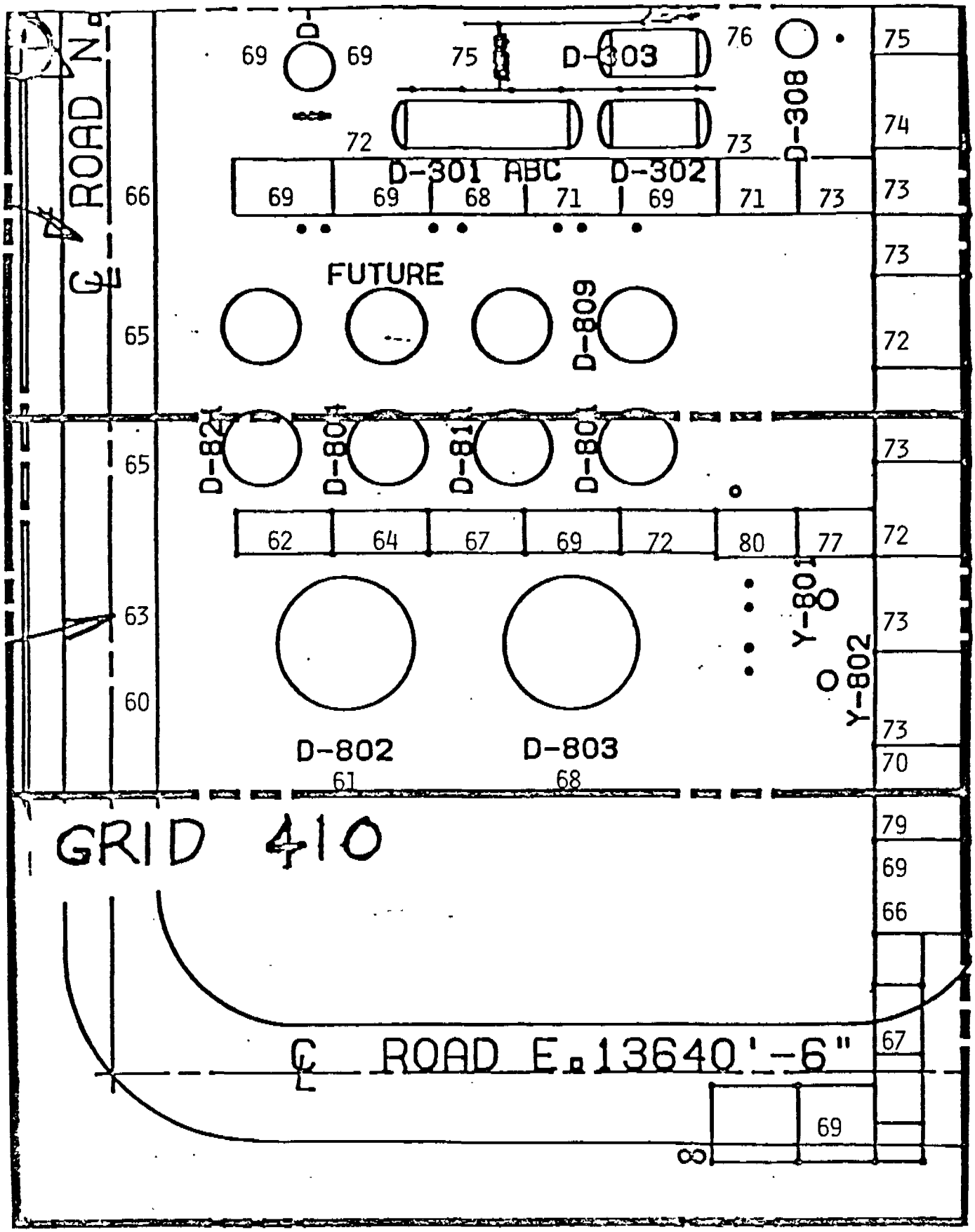
POLY C AREA NOISE LEVELS IN db(A)



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RESULTS OF PERSONAL BREATHING ZONE TESTS FOR ISOPAR E

EXXON EXPOSURE LIMIT - 400 PARTS PER MILLION

Job Classification	No. of Samples	Average Exposure To Isopar E	Highest Exposure
O.T.	6	1.5 ppm	5.7 ppm
S.O.T. Reaction Area	6	.3 ppm	.5 ppm
O.S. Extra	1	<.1 ppm	<.1 ppm
Shift Supervisor	1	<.4 ppm	<.4 ppm
Technical	1	<.1 ppm	<.1 ppm

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RESULTS OF PERSONAL BREATHING ZONE TESTS FOR DOWTHERM* A

DOW INDUSTRIAL HYGIENE GUIDELINE - 1 PPM (DUE TO DISAGREEABLE ODOR)

Job Classification	No. of Samples	Average Exposure To Dowtherm A	Highest Exposure To Dowtherm A
O.T.	2	.05 ppm	<.07 ppm
S.O.T. Reaction Area	2	<.04 ppm	<.04 ppm
Shift Supervisor	1	<.04 ppm	<.04 ppm

* TRADEMARK OF THE DOW CHEMICAL COMPANY

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RESULTS OF PERSONAL BREATHING ZONE TESTS FOR NUISANCE DUSTS

TLV = 10 MG/M^3 TOTAL DUST

JOB	NUMBER OF SAMPLES	EXPOSURE TO NUISANCE DUSTS
O.T.	1	< 1.4 MG/M^3
S.O.T. REACTION AREA	1	< 1.2 MG/M^3

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COMPOUND: HYDROCHLORIC ACID, ANHYDROUS

SYNONYMS: HYDROGEN CHLORIDE; ANHYDROUS HYDROCHLORIC ACID.

EYES: VAPOR CAN CAUSE SEVERE BURNS RESULTING IN PARTIAL OR TOTAL LOSS OF VISION.

SKIN: GAS CAN BE ABSORBED INTO PERSPIRATION, CREATING A BURNING SENSATION. CONTACT WITH VAPORS OR LIQUID MAY PRODUCE BURNS, ULCERATION AND SCARRING. REPEATED EXPOSURES MAY LEAD TO DERMATITIS.

INGESTION: ALTHOUGH NOT LIKELY TO OCCUR IN NORMAL HANDLING, SWALLOWING EVEN SMALL AMOUNTS MAY LEAD TO TISSUE DAMAGE IN THE MOUTH, ESOPHAGUS AND STOMACH.

INHALATION: ACUTE -- IMMEDIATE COUGH OR CHOKING SENSATION AND EXTREME NOSE AND THROAT IRRITATION ARE RESPONSES TO BREATHING VAPORS OR MISTS WITH POSSIBLE LUNG DAMAGE.

CHRONIC -- REPEATED OVEREXPOSURES CAN CAUSE ULCERATION OF THE NOSE AND THROAT, EROSION OF THE TEETH AND TIGHTNESS OF THE CHEST.

COMMENTS: VOLUNTARY GROSS OVEREXPOSURE IS UNLIKELY IN LIGHT OF THE IRRITATING PROPERTIES OF THE CHEMICAL.

IHG: TLV: 5 PPM CEILING (7 MG/M^3) SET TO PREVENT SERIOUS PULMONARY INJURY. SIGNIFICANT IRRITANT EFFECTS MAY STILL BE PRESENT.

ODOR: THRESHOLD AT 5 PPM.

REFERENCES: "OCCUPATIONAL DISEASE", HEW/NIOSH, 1977; TLV DOCUMENTATION, ACGIH, 1977.

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