

TUNNEL TEMPERATURE TESTS TEMPERATURE DISTRIBUTION

TEST: MIS- 1A

SINGLE IMPULSE FAN OPERATION CHECK

TIME: 14:45

DB 23.7 °C	DB 27.2 °C	DB 29.7 °C	DB 32.2 °C	DB 37.2 °C	DB 39.7 °C
DB 23.8 °C	DB 27.3 °C	DB 29.8 °C	DB 32.3 °C	DB 37.3 °C	DB 39.8 °C
DB 23.9 °C	DB 27.4 °C	DB 29.9 °C	DB 32.4 °C	DB 37.4 °C	DB 39.9 °C

TIME
24:45



7B 42 °C	6B 36.4 °C
7C 53.5 °C	6C 37.5 °C
7A 47 °C	6A - °C

10A 40.5 °C

12A 33.5 °C

1A 31.5 °C

2A 31 °C

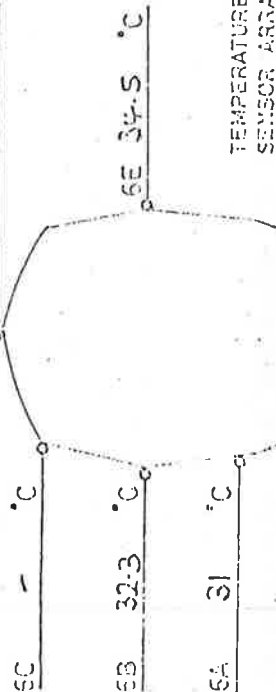
3A 29.5 °C

3B 26 M/S

5C 37.4 °C

9A 30.3 °C

11A 29 °C



5B 32.3 °C

5A 31 °C

6E 34.5 °C

NOTES:- * OSCILLATING BETWEEN 42°C AND 34°C

TEMPERATURE
SENSOR ARRAY

TUNNEL TEMPERATURE TESTS

TEMPERATURE DISTRIBUTION

TEST: MIS- 1AR

SINGLE IMPULSE FAN OPERATION CHECK

TIME: 15:00

	DB 29.8 °C	DB 33.6 °C	DB 34.4 °C	DB 32.6 °C	DB 29.3 °C	DB 30.1 °C
	WB 25.1 °C	WB 28.4 °C	WB 28.4 °C	WB 26.8 °C	WB 25.7 °C	WB 26.3 °C
	RH 68 %	RH 68 %	RH 63 %	RH 63 %	RH 63 %	RH 64.2 %
	CAR 1	CAR 2	CAR 3	CAR 4	CAR 5	CAR 6
	117B 45.8 °C	117B 38.8 °C	110A 41 °C	110A 41 °C	11A 29 °C	11A 29 °C
	7E 54.0 °C	8C 52.7 °C				
	17A 49.4 °C	8A 43.2 °C				
	5A 41.9 °C	3A 52.0 °C				
	12A 33.2 °C	23 26.0 °C				
	33 3.05 M/S					

LINE
PUMP

SD 39.4 °C

5C 36.7 °C

6B 33.9 °C

5A 33.4 °C

6E 35.4 °C

TEMPERATURE
SENSOR ARRAY
ON CAR 1

* NOTES:- OSCILLATING WITHIN THE RANGE
50.6 °C - 56 °C

TUNNEL TEMPERATURE TESTS

TEMPERATURE DISTRIBUTION

TEST: MIS- 1 B

TIME: 16:00

DOUBLE IMPULSE FAN OPERATION CHECK

22 27.0 °C 23 25.4 °C 24 22.1 °C 25 26.9 °C 26 26.2 °C
 27 24.6 °C 28 24.5 °C 29 25.7 °C 30 25.2 °C 31 25.3 °C
 32 31.5 °C 33 20.0 °C 34 36.0 °C 35 36.0 °C 36 36.0 °C

37 36.0 °C 38 39.5 °C 39 39.5 °C 40 39.5 °C 41 39.5 °C
 42 39.5 °C 43 39.5 °C 44 39.5 °C 45 39.5 °C 46 39.5 °C
 47 39.5 °C 48 39.5 °C 49 39.5 °C 50 39.5 °C 51 39.5 °C

52 36.0 °C 53 39.5 °C 54 39.5 °C 55 39.5 °C 56 39.5 °C
 57 39.5 °C 58 39.5 °C 59 39.5 °C 60 39.5 °C 61 39.5 °C
 62 39.5 °C 63 39.5 °C 64 39.5 °C 65 39.5 °C 66 39.5 °C

67 39.5 °C 68 39.5 °C 69 39.5 °C 70 39.5 °C 71 39.5 °C
 72 39.5 °C 73 39.5 °C 74 39.5 °C 75 39.5 °C 76 39.5 °C
 77 39.5 °C 78 39.5 °C 79 39.5 °C 80 39.5 °C 81 39.5 °C

82 30.0 °C 83 26.2 °C 84 28.5 °C 85 28.5 °C 86 28.5 °C
 87 26.0 °C 88 26.0 °C 89 26.0 °C 90 26.0 °C 91 26.0 °C
 92 26.0 °C 93 26.0 °C 94 26.0 °C 95 26.0 °C 96 26.0 °C

97 35.7 °C

98 28.5 °C

99 25.0 °C

SC / °C

SE 29.9 °C

SE 31.0 °C

SE 29.9 °C

NOTES:-

TEMPERATURE
 201505 1500W

TUNNEL TEMPERATURE TESTS

TEMPERATURE DISTRIBUTION

TEST: MIS- 1 B

TIME: 16:25

DOUBLE IMPULSE FAN OPERATION CHECK

SB 26.6 °C DB 27.2 °C WB 23.2 °C TA 25.0 °C

WB 21.1 °C DB 22.0 °C WB 23.2 °C TA 25.0 °C

SA 61.0 °C DB 22.0 °C WB 23.2 °C TA 25.0 °C

WIND
SPEED



SB 36.5 °C DB 39.7 °C

WB 33.0 °C DB 45.0 °C

TA 38.3 °C DB 45.0 °C

SA 35.0 °C

TA 32.0 °C

SB 34.0 °C

DB 28.5 °C

TA 25.0 °C

SC 30.1 °C

SB 30.1 °C

SE 31.2 °C

SA 30.1 °C

TEMPERATURE

NOTES:-

TUNNEL TEMPERATURE TESTS

TEMPERATURE DISTRIBUTION

TEST: MIS- 2

TIME: 14:55

TRAIN AIR CONDITIONER PERFORMANCE CHECK

33 36.6 °C 33 33.9 °C 33 32.0 °C 33 31.2 °C 33 30.5 °C
 34 31.2 °C 34 29.6 °C 34 28.0 °C 34 27.3 °C 34 26.6 °C
 35 30.6 °C 35 27.2 °C 35 25.4 °C 35 23.9 °C 35 22.5 °C

36 30.0 °C 36 28.0 °C 36 26.0 °C 36 24.0 °C 36 22.0 °C
 37 29.0 °C 37 27.0 °C 37 25.0 °C 37 23.0 °C 37 21.0 °C
 38 28.0 °C 38 26.0 °C 38 24.0 °C 38 22.0 °C 38 20.0 °C

39 38.8 °C 39 37.9 °C
 40 45.2 °C 40 43.2 °C
 41 37.2 °C 41 36.5 °C

42 29.3 °C 42 28.0 °C 42 25.9 °C
 43 25.8 °C 43 22.7 °C

44 37.9 °C 44 36.7 °C 44 32.3 °C 44 27.3 °C
 45 33.2 °C 45 32.3 °C
 46 34.6 °C

NOTES

TEMPERATURE
SENSOR LOGS

TUNNEL TEMPERATURE TESTS

TEMPERATURE DISTRIBUTION

TEST: MIS- 2 R

TIME: 16:20

TRAIN AIR CONDITIONER PERFORMANCE CHECK

34.8 °C	34.3 °C	34.6 °C	37.9 °C	31.9 °C	34.2 °C
33.0 °C	33.1 °C	31.0 °C	32.2 °C	32.2 °C	34.2 °C
33.0 °C	33.0 °C	33.0 °C	33.0 °C	33.0 °C	33.0 °C

34.8 °C	34.3 °C	34.6 °C	37.9 °C	31.9 °C	34.2 °C
33.0 °C	33.1 °C	31.0 °C	32.2 °C	32.2 °C	34.2 °C
33.0 °C	33.0 °C	33.0 °C	33.0 °C	33.0 °C	33.0 °C

34.8 °C	34.3 °C	34.6 °C	37.9 °C	31.9 °C	34.2 °C
33.0 °C	33.1 °C	31.0 °C	32.2 °C	32.2 °C	34.2 °C
33.0 °C	33.0 °C	33.0 °C	33.0 °C	33.0 °C	33.0 °C

34.8 °C

34.3 °C

34.6 °C

37.9 °C

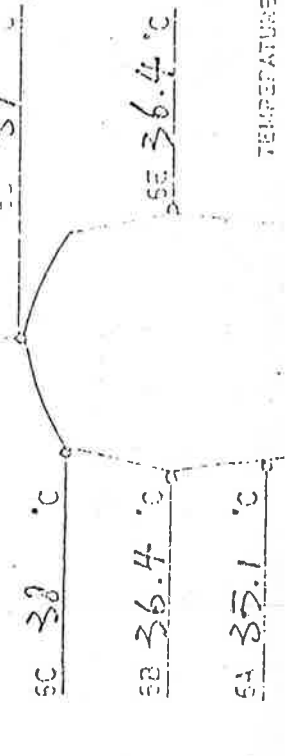
31.9 °C

34.2 °C

37 °C

40.3 °C

40.5 °C



NOTES:-

TEMPERATURE

TUNNEL TEMPERATURE TESTS

TEMPERATURE DISTRIBUTION

TEST: MIS- 2 R

TIME: 16:20

TRAIN AIR CONDITIONER PERFORMANCE CHECK

34.8 °C 34.3 °C 32.6 °C 33.9 °C 33.8 °C 34.3 °C
 33.0 °C 33.9 °C 33.6 °C 33.2 °C 33.2 °C 33.2 °C
 32.2 °C 32.2 °C 32.2 °C 32.2 °C 32.2 °C 32.2 °C

34.5.2 °C	34.5.2 °C	34.5.2 °C	34.5.2 °C	34.5.2 °C	34.5.2 °C
34.5.2 °C	34.5.2 °C	34.5.2 °C	34.5.2 °C	34.5.2 °C	34.5.2 °C
34.5.2 °C	34.5.2 °C	34.5.2 °C	34.5.2 °C	34.5.2 °C	34.5.2 °C

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34.5.2 °C

34.5.2 °C

NOTES

TEMPERATURE

TUNNEL TEMPERATURE TESTS

TEMPERATURE DISTRIBUTION

TEST: MIS- 3A

TIME: 12:05

LOSS OF TRACTION POWER CHECK

DB 36.4 °C	DB 33.3 °C	DB 38.2 °C	DB 34.2 °C	DB 32.0 °C	SE 32.0 °C
WB 31.2 °C	WB 29.6 °C	WB 30.0 °C	WB 29.6 °C	WB 27.8 °C	WB 30.0 °C
PH 69 %	PH 74 %	PH 56 %	PH 72 %	PH 72 %	PH 68 %

LINE
SUMP

DB 36.4 °C	DB 33.3 °C	DB 38.2 °C	DB 34.2 °C	DB 32.0 °C	SE 32.0 °C
WB 31.2 °C	WB 29.6 °C	WB 30.0 °C	WB 29.6 °C	WB 27.8 °C	WB 30.0 °C
PH 69 %	PH 74 %	PH 56 %	PH 72 %	PH 72 %	PH 68 %

SE 29.5 °C	SE 29.0 °C
SE 32.0 °C	SE 32.0 °C
SE 30.4 °C	SE 30.2 °C

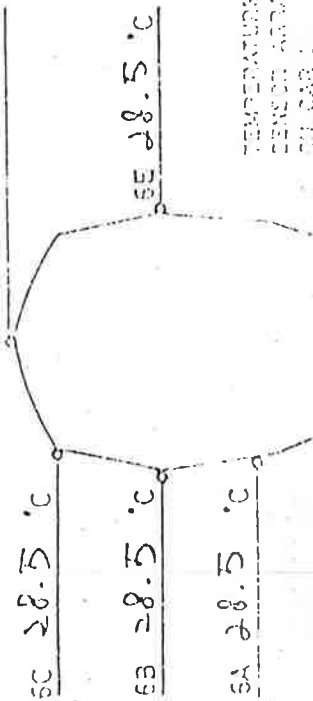
28.0 °C

28.0 °C

26.5 °C

27.0 °C

28.5 °C



TEMPERATURE
SENSORS ALONG
ON CAR

NOTES:-

TUNNEL TEMPERATURE TESTS

TEMPERATURE DISTRIBUTION

TEST: MIS- 3A

LOSS OF TRACTION POWER CHECK

TIME: 12:15

DB 30.4 °C DB 36.0 °C DB 36.8 °C DB 32.6 °C DB 35.4 °C DB 35.4 °C
 WB 29.8 °C WB 30.6 °C WB 29.8 °C WB 30.2 °C WB 30.2 °C WB 30.2 °C
 SW 96 % SW 68 % SW 57 % SW 72 % SW 60 % SW 60 %

LINE
SLOPE

CART 1 CART 2 CART 3 CART 4 CART 5 CART 6
 0000 0000 0000 0000 0000 0000
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73 29.5 °C 83 27.6 °C
 72 31.5 °C 82 30.1 °C
 7A 29.5 °C 8A 27.9 °C

100A 26.8 °C

100B 26.6 °C

100C 28.3 °C

2A 28.5 °C 2B 25.5 °C
 3A 26.8 °C 3B 3.4 M/S

6D 28.5 °C

6A 27.0 °C

11A 26.5 °C

5C 28.0 °C

5B 28.5 °C

6E 28.5 °C

5A 28.5 °C

NOTES:-

TEMPERATURE

TUNNEL TEMPERATURE TESTS

TEMPERATURE DISTRIBUTION

TEST: MIS- 3B

LOSS OF TRACTION POWER CHECK -

TIME: 12:25

TWO IMPULSE FANS

38 31.2 °C 33 32.2 °C 32 34.0 °C 31 32.6 °C 30 35.0 °C 29 27.8 °C
 28 30.4 °C 27 32.4 °C 26 33.0 °C 25 32.0 °C 24 31.0 °C
 23 31.1 °C 22 31.1 °C 21 31.1 °C 20 31.1 °C 19 31.1 °C

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33 29.0 °C 32 26.5 °C
 31 31.9 °C 30 29.5 °C
 29 29.5 °C 28 — °C

31 27.0 °C

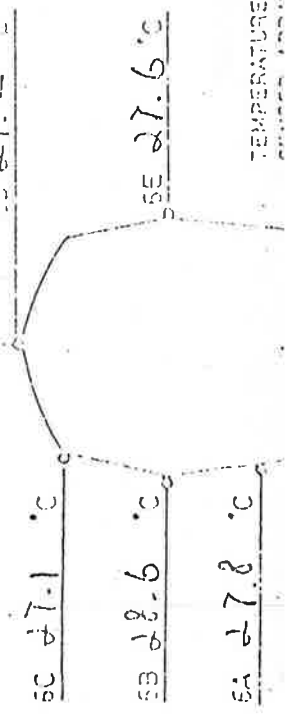
30 27.0 °C

34 27.0 °C 33 26.5 °C
 32 26.0 °C 31 26.5 °C

30 27.2 °C

29 26.4 °C

28 28.0 °C



NOTES

TEMPERATURE

TUNNEL TEMPERATURE TESTS

TEMPERATURE DISTRIBUTION

TEST: MIS-3BR

LOSS OF TRACTION POWER CHECK -

TIME: 13:05

TWO IMPULSE FANS

23 27.6 °C

24 37.6 °C

25 32.5 °C

26 35.6 °C

27 31.2 °C

28 29.8 °C

29 30.0 °C

30 32.5 °C

31 63 °C

32 14 °C

33 52 °C

34 32.5 °C

35 35.6 °C

36 32.5 °C

37 31.2 °C

38 29.8 °C

39 30.0 °C

40 32.5 °C

41 35.6 °C

42 32.5 °C

43 29.7 °C

44 29.2 °C

45 30.6 °C

46 29.2 °C

47 30.6 °C

48 29.2 °C

49 30.3 °C

50 29.2 °C

51 29.0 °C

52 29.0 °C

53 29.0 °C

54 29.0 °C

55 28.0 °C

56 25.6 °C

57 29.7 °C

58 27.2 °C

59 25.4 °C

60 27.5 °C

61 27.5 °C

62 27.5 °C

63 27.5 °C

64 28.5 °C

65 26.4 °C

66 26.3 °C

67 27.5 °C

68 28.5 °C

69 26.4 °C

70 26.3 °C

71 28.2 °C

72 28.2 °C

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NOTES:-

TEMPERATURE

TUNNEL TEMPERATURE TESTS

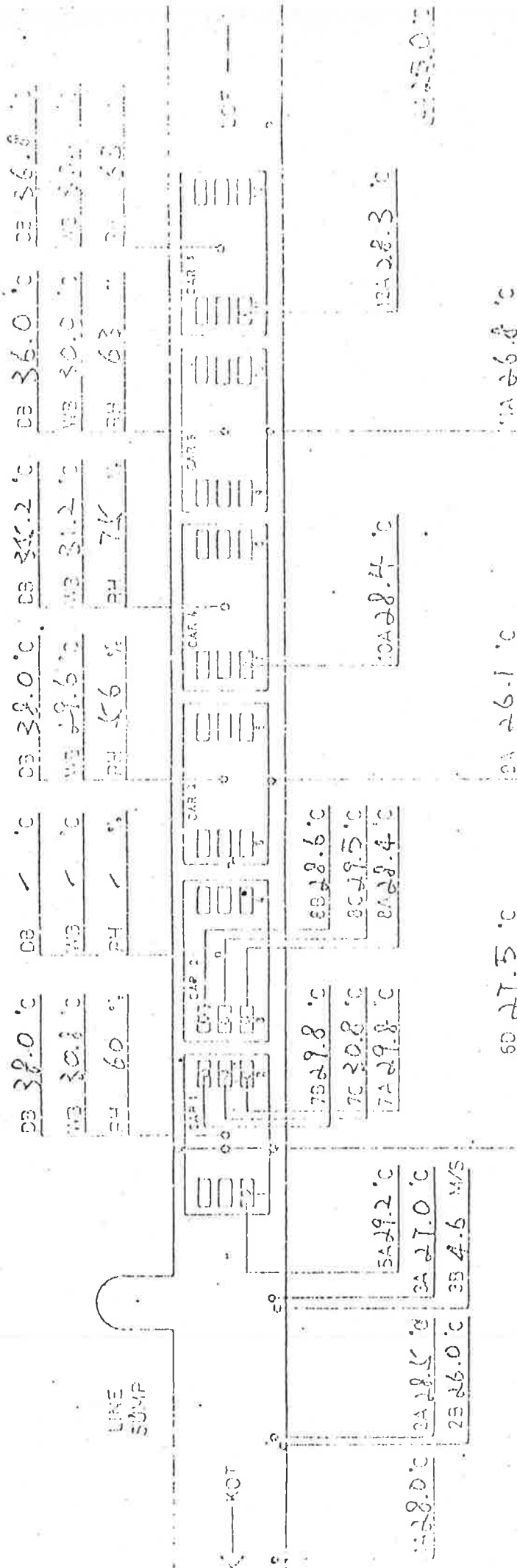
TEMPERATURE DISTRIBUTION

TEST: MIS- 3 BR

LOSS OF TRACTION POWER CHECK -

TIME: 13:20

TWO IMPULSE FANS



NOTES:

TEMPERATURE SENSORS ADDED

TUNNEL TEMPERATURE TESTS

TEMPERATURE DISTRIBUTION

TEST: MIS- 4 A RESTRICTED MANUAL RUNNING CHECK

TIME: 12:10

DB 31.4 °C	DB 30.4 °C	DB 33.2 °C	DB 32.6 °C	DB 27.0 °C	DB 29.6 °C
WB 18.8 °C	WB 17.5 °C	WB 17.6 °C	WB 16.6 °C	WB 22.8 °C	WB 14.0 °C
RH 82 %	RH 81 %	RH 66 %	RH 63 %	RH 62 %	RH 63 %

CAR 1	CAR 2	CAR 3	CAR 4	CAR 5	CAR 6

TD 31.0 °C	TD 30.0 °C
TE 32.4 °C	TE 32.5 °C
TA 13.5 °C	TA 30.0 °C

CA 42.0 °C

CA 41.5 °C

6D 31.2 °C

TA 32.1 °C

6A 28.6 °C

6C 31.8 °C

6B 31.2 °C

6E 31.0 °C

6A 31.5 °C

NOTES:-

TEMPERATURE
SENSOR ARRAY

NOT

TEMPERATURE DISTRIBUTION

RESTRICTED MANUAL RUNNING CHECK

TIME: 14:18

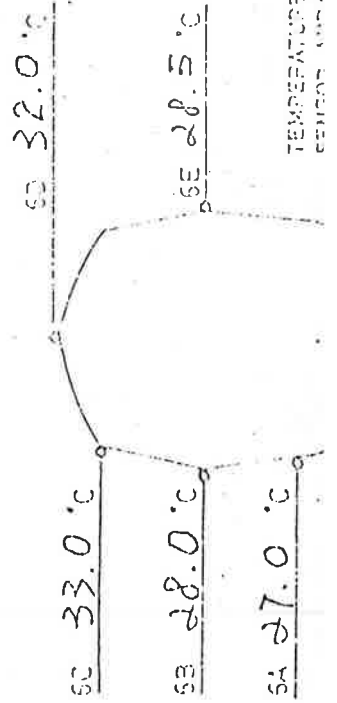
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THE

TUNNEL TEMPERATURE TESTS

TEMPERATURE DISTRIBUTION

TEST: MIS- 4D

RESTRICTED MANUAL RUNNING CHECK

TIME: 14:53

33 26.9 °C	33 22.0 °C	33 32.2 °C	33 30.8 °C	33 28.2 °C	33 27.1 °C
33 22.9 °C	33 24.7 °C	33 21.9 °C	33 26.8 °C	33 28.2 °C	33 27.1 °C
33 21.9 °C	33 24.7 °C	33 21.9 °C	33 26.8 °C	33 28.2 °C	33 27.1 °C

33 26.9 °C	33 22.0 °C	33 32.2 °C	33 30.8 °C	33 28.2 °C	33 27.1 °C
33 22.9 °C	33 24.7 °C	33 21.9 °C	33 26.8 °C	33 28.2 °C	33 27.1 °C
33 21.9 °C	33 24.7 °C	33 21.9 °C	33 26.8 °C	33 28.2 °C	33 27.1 °C

33 46.0 °C	33 41.8 °C
33 55.8 °C	33 44.0 °C
33 45.0 °C	33 44.0 °C

33 42.0 °C

33 33.0 °C

33 30.0 °C

33 32.0 °C

33 34.0 °C

33 34.0 °C

33 38.0 °C

33 33.5 °C

NOTES:

TEMPERATURE
SENSOR ARRAY

TUNNEL TEMPERATURE TESTS

TEMPERATURE DISTRIBUTION

TEST: MIS- 5

TIME: 12:45

REVERSE AIR-FLOW CHECK

11.2	11.3	11.4	11.5	11.6	11.7	11.8	11.9	12.0	12.1	12.2	12.3	12.4	12.5	12.6	12.7	12.8	12.9	13.0	13.1	13.2	13.3	13.4	13.5	13.6	13.7	13.8	13.9	14.0	14.1	14.2	14.3	14.4	14.5	14.6	14.7	14.8	14.9	15.0	15.1	15.2	15.3	15.4	15.5	15.6	15.7	15.8	15.9	16.0	16.1	16.2	16.3	16.4	16.5	16.6	16.7	16.8	16.9	17.0	17.1	17.2	17.3	17.4	17.5	17.6	17.7	17.8	17.9	18.0	18.1	18.2	18.3	18.4	18.5	18.6	18.7	18.8	18.9	19.0	19.1	19.2	19.3	19.4	19.5	19.6	19.7	19.8	19.9	20.0	20.1	20.2	20.3	20.4	20.5	20.6	20.7	20.8	20.9	21.0	21.1	21.2	21.3	21.4	21.5	21.6	21.7	21.8	21.9	22.0	22.1	22.2	22.3	22.4	22.5	22.6	22.7	22.8	22.9	23.0	23.1	23.2	23.3	23.4	23.5	23.6	23.7	23.8	23.9	24.0	24.1	24.2	24.3	24.4	24.5	24.6	24.7	24.8	24.9	25.0	25.1	25.2	25.3	25.4	25.5	25.6	25.7	25.8	25.9	26.0	26.1	26.2	26.3	26.4	26.5	26.6	26.7	26.8	26.9	27.0	27.1	27.2	27.3	27.4	27.5	27.6	27.7	27.8	27.9	28.0	28.1	28.2	28.3	28.4	28.5	28.6	28.7	28.8	28.9	29.0	29.1	29.2	29.3	29.4	29.5	29.6	29.7	29.8	29.9	30.0	30.1	30.2	30.3	30.4	30.5	30.6	30.7	30.8	30.9	31.0	31.1	31.2	31.3	31.4	31.5	31.6	31.7	31.8	31.9	32.0	32.1	32.2	32.3	32.4	32.5	32.6	32.7	32.8	32.9	33.0	33.1	33.2	33.3	33.4	33.5	33.6	33.7	33.8	33.9	34.0	34.1	34.2	34.3	34.4	34.5	34.6	34.7	34.8	34.9	35.0	35.1	35.2	35.3	35.4	35.5	35.6	35.7	35.8	35.9	36.0	36.1	36.2	36.3	36.4	36.5	36.6	36.7	36.8	36.9	37.0	37.1	37.2	37.3	37.4	37.5	37.6	37.7	37.8	37.9	38.0	38.1	38.2	38.3	38.4	38.5	38.6	38.7	38.8	38.9	39.0	39.1	39.2	39.3	39.4	39.5	39.6	39.7	39.8	39.9	40.0	40.1	40.2	40.3	40.4	40.5	40.6	40.7	40.8	40.9	41.0	41.1	41.2	41.3	41.4	41.5	41.6	41.7	41.8	41.9	42.0	42.1	42.2	42.3	42.4	42.5	42.6	42.7	42.8	42.9	43.0	43.1	43.2	43.3	43.4	43.5	43.6	43.7	43.8	43.9	44.0	44.1	44.2	44.3	44.4	44.5	44.6	44.7	44.8	44.9	45.0	45.1	45.2	45.3	45.4	45.5	45.6	45.7	45.8	45.9	46.0	46.1	46.2	46.3	46.4	46.5	46.6	46.7	46.8	46.9	47.0	47.1	47.2	47.3	47.4	47.5	47.6	47.7	47.8	47.9	48.0	48.1	48.2	48.3	48.4	48.5	48.6	48.7	48.8	48.9	49.0	49.1	49.2	49.3	49.4	49.5	49.6	49.7	49.8	49.9	50.0	50.1	50.2	50.3	50.4	50.5	50.6	50.7	50.8	50.9	51.0	51.1	51.2	51.3	51.4	51.5	51.6	51.7	51.8	51.9	52.0	52.1	52.2	52.3	52.4	52.5	52.6	52.7	52.8	52.9	53.0	53.1	53.2	53.3	53.4	53.5	53.6	53.7	53.8	53.9	54.0	54.1	54.2	54.3	54.4	54.5	54.6	54.7	54.8	54.9	55.0	55.1	55.2	55.3	55.4	55.5	55.6	55.7	55.8	55.9	56.0	56.1	56.2	56.3	56.4	56.5	56.6	56.7	56.8	56.9	57.0	57.1	57.2	57.3	57.4	57.5	57.6	57.7	57.8	57.9	58.0	58.1	58.2	58.3	58.4	58.5	58.6	58.7	58.8	58.9	59.0	59.1	59.2	59.3	59.4	59.5	59.6	59.7	59.8	59.9	60.0	60.1	60.2	60.3	60.4	60.5	60.6	60.7	60.8	60.9	61.0	61.1	61.2	61.3	61.4	61.5	61.6	61.7	61.8	61.9	62.0	62.1	62.2	62.3	62.4	62.5	62.6	62.7	62.8	62.9	63.0	63.1	63.2	63.3	63.4	63.5	63.6	63.7	63.8	63.9	64.0	64.1	64.2	64.3	64.4	64.5	64.6	64.7	64.8	64.9	65.0	65.1	65.2	65.3	65.4	65.5	65.6	65.7	65.8	65.9	66.0	66.1	66.2	66.3	66.4	66.5	66.6	66.7	66.8	66.9	67.0	67.1	67.2	67.3	67.4	67.5	67.6	67.7	67.8	67.9	68.0	68.1	68.2	68.3	68.4	68.5	68.6	68.7	68.8	68.9	69.0	69.1	69.2	69.3	69.4	69.5	69.6	69.7	69.8	69.9	70.0	70.1	70.2	70.3	70.4	70.5	70.6	70.7	70.8	70.9	71.0	71.1	71.2	71.3	71.4	71.5	71.6	71.7	71.8	71.9	72.0	72.1	72.2	72.3	72.4	72.5	72.6	72.7	72.8	72.9	73.0	73.1	73.2	73.3	73.4	73.5	73.6	73.7	73.8	73.9	74.0	74.1	74.2	74.3	74.4	74.5	74.6	74.7	74.8	74.9	75.0	75.1	75.2	75.3	75.4	75.5	75.6	75.7	75.8	75.9	76.0	76.1	76.2	76.3	76.4	76.5	76.6	76.7	76.8	76.9	77.0	77.1	77.2	77.3	77.4	77.5	77.6	77.7	77.8	77.9	78.0	78.1	78.2	78.3	78.4	78.5	78.6	78.7	78.8	78.9	79.0	79.1	79.2	79.3	79.4	79.5	79.6	79.7	79.8	79.9	80.0	80.1	80.2	80.3	80.4	80.5	80.6	80.7	80.8	80.9	81.0	81.1	81.2	81.3	81.4	81.5	81.6	81.7	81.8	81.9	82.0	82.1	82.2	82.3	82.4	82.5	82.6	82.7	82.8	82.9	83.0	83.1	83.2	83.3	83.4	83.5	83.6	83.7	83.8	83.9	84.0	84.1	84.2	84.3	84.4	84.5	84.6	84.7	84.8	84.9	85.0	85.1	85.2	85.3	85.4	85.5	85.6	85.7	85.8	85.9	86.0	86.1	86.2	86.3	86.4	86.5	86.6	86.7	86.8	86.9	87.0	87.1	87.2	87.3	87.4	87.5	87.6	87.7	87.8	87.9	88.0	88.1	88.2	88.3	88.4	88.5	88.6	88.7	88.8	88.9	89.0	89.1	89.2	89.3	89.4	89.5	89.6	89.7	89.8	89.9	90.0	90.1	90.2	90.3	90.4	90.5	90.6	90.7	90.8	90.9	91.0	91.1	91.2	91.3	91.4	91.5	91.6	91.7	91.8	91.9	92.0	92.1	92.2	92.3	92.4	92.5	92.6	92.7	92.8	92.9	93.0	93.1	93.2	93.3	93.4	93.5	93.6	93.7	93.8	93.9	94.0	94.1	94.2	94.3	94.4	94.5	94.6	94.7	94.8	94.9	95.0	95.1	95.2	95.3	95.4	95.5	95.6	95.7	95.8	95.9	96.0	96.1	96.2	96.3	96.4	96.5	96.6	96.7	96.8	96.9	97.0	97.1	97.2	97.3	97.4	97.5	97.6	97.7	97.8	97.9	98.0	98.1	98.2	98.3	98.4	98.5	98.6	98.7	98.8	98.9	99.0	99.1	99.2	99.3	99.4	99.5	99.6	99.7	99.8	99.9	100.0	100.1	100.2	100.3	100.4	100.5	100.6	100.7	100.8	100.9	101.0	101.1	101.2	101.3	101.4	101.5	101.6	101.7	101.8	101.9	102.0	102.1	102.2	102.3	102.4	102.5	102.6	102.7	102.8	102.9	103.0	103.1	103.2	103.3	103.4	103.5	103.6	103.7	103.8	103.9	104.0	104.1	104.2	104.3	104.4	104.5	104.6	104.7	104.8	104.9	105.0	105.1	105.2	105.3	105.4	105.5	105.6	105.7	105.8	105.9	106.0	106.1	106.2	106.3	106.4	106.5	106.6	106.7	106.8	106.9	107.0	107.1	107.2	107.3	107.4	107.5	107.6	107.7	107.8	107.9	108.0	108.1	108.2	108.3	108.4	108.5	108.6	108.7	108.8	108.9	109.0	109.1	109.2	109.3	109.4	109.5	109.6	109.7	109.8	109.9	110.0	110.1	110.2	110.3	110.4	110.5	110.6	110.7	110.8	110.9	111.0	111.1	111.2	111.3	111.4	111.5	111.6	111.7	111.8	111.9	112.0	112.1	112.2	112.3	112.4	112.5	112.6	112.7	112.8	112.9	113.0	113.1	113.2	113.3	113.4	113.5	113.6	113.7	113.8	113.9	114.0	114.1	114.2	114.3	114.4	114.5	114.6	114.7	114.8	114.9	115.0	115.1	115.2	115.3	115.4	115.5	115.6	115.7	115.8	115.9	116.0	116.1	116.2	116.3	116.4	116.5	116.6	116.7	116.8	116.9	117.0	117.1	117.2	117.3	117.4	117.5	117.6	117.7	117.8	117.9	118.0	118.1	118.2	118.3	118.4	118.5	118.6	118.7	118.8	118.9	119.0	119.1	119.2	119.3	119.4	119.5	119.6	119.7	119.8	119.9	120.0	120.1	120.2	120.3	120.4	120.5	120.6	120.7	120.8	120.9	121.0	121.1	121.2	121.3	121.4	121.5	121.6	121.7	121.8	121.9	122.0	122.1	122.2	122.3	122.4	122.5	122.6	122.7	122.8	122.9	123.0	123.1	123.2	123.3	123.4	123.5	123.6	123.7	123.8	123.9	124.0	124.1	124.2	124.3	124.4	124.5	124.6	124.7	124.8	124.9	125.0	125.1	125.2	125.3	125.4	125.5	125.6	125.7	125.8	125.9	126.0	126.1	126.2	126.3	126.4	126.5	126.6	126.7	126.8	126.9	127.0	127.1	127.2	127.3	127.4	127.5	127.6	127.7	127.8	127.9	128.0	128.1	128.2	128.3	128.4	128.5	128.6	128.7	128.8	128.9	129.0	129.1	129.2	129.3	129.4	129.5	129.6	129.7	129.8	129.9	130.0	130.1	130.2	130.3	130.4	130.5	130.6	130.7	130.8	130.9	131.0	131.1	131.2	131.3	131.4	131.5	131.6	131.7	131.8	131.9	132.0	132.1	132.2	132.3	132.4	132.5	132.6	132.7	132.8	132.9	133.0	133.1	133.2	133.3	133.4	133.5	133.6	133.7	133.8	133.9	134.0	134.1	134.2	134.3	134.4	134.5	134.6	134.7	134.8	134.9	135.0	135.1	135.2	135.3	135.4	135.5	135.6	135.7	135.8	135.9	136.0	136.1	136.2	136.3	136.4	136.5	136.6	136.7	136.8	136.9	137.0	137.1	137.2	137.3	137.4	137.5	137.6	137.7	137.8	137.9	138.0	138.1	138.2	138.3	138.4	138.5	138.6	138.7	138.8	138.9	139.0	139.1	139.2	139.3	139.4	139.5	139.6	139.7	139.8	139.9	140.0	140.1	140.2	140.3	140.4	140.5	140.6	140.7	140.8	140.9	141.0	141.1	141.2	141.
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TUNNEL TEMPERATURE TESTS

TEMPERATURE DISTRIBUTION

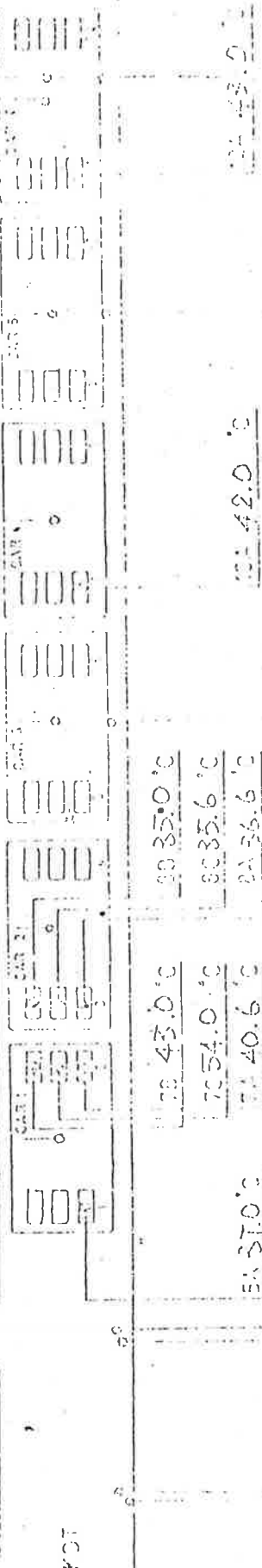
TEST: MIS- 5

TIME: 12:47

REVERSE AIR-FLOW CHECK

DB 27.6 °C	DB 32.2 °C	DB 32.6 °C	DB 31.1 °C	DB 28.6 °C	DB 26.8 °C
WB 23.6 °C	WB 26.2 °C	WB 26.8 °C	WB 26.8 °C	WB 20.8 °C	WB 21.8 °C
RH 72 %	RH 62 %	RH 63 %	RH 71 %	RH 64 %	RH 65 %

LINE
SUBAP.



DB 43.0 °C	DB 35.0 °C
WB 34.0 °C	WB 35.6 °C
TA 40.6 °C	TA 36.6 °C

DB 42.0 °C

DB 43.0 °C

DB 49.5 °C	DB 48.3 °C
WB 44.5 °C	WB 44.5 °C

DB 30.0 °C

DB 33.0 °C

DB 26.0 °C

NOTES:-

DB 31.0 °C

DB 28.6 °C

DB 23.8 °C

TEMPERATURE
DISTRIBUTION
TEST

TUNNEL TEMPERATURE TESTS

TEMPERATURE DISTRIBUTION

TEST: MIS- 5

TIME: 12:50

REVERSE AIR-FLOW CHECK

CE 46.1 °C TS 29.8 °C DB 33.6 °C WB 31.9 °C DB 46.8 °C WB 46.6 °C
 WB 43.1 °C TS 24.8 °C DB 27.6 °C WB 28.2 °C DB 27.3 °C WB 27.1 °C
 DB 78 °C TS 67 °C DB 65 °C WB 77 °C DB 65 °C WB 64 °C

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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TO 40.5 °C CO 30.6 °C
 TO 30.0 °C CO 31.3 °C
 TO 32.1 °C CO 32.3 °C

31.29.8 °C
 32.36.8 °C 32.46.0 °C
 32.34.4 °C 32.2.0 °C

32.4 °C

32.4 °C

32.1 °C

32.0 °C

32.0 °C

33.8 °C

30.9 °C

NOTES: RECORDED BY A PORTABLE VANE
 TYPE ANEMOMETER. 1.7 - 2.5 m/s

TUNNEL TEMPERATURE TESTS

TEMPERATURE DISTRIBUTION

TEST: MIS- 6

TIME: 11:40

TRAIN push-out TEST

SB	26.3 °C	DB	24.0 °C	DB	29.4 °C	DB	22.0 °C	SB	20.0 °C	SB	21.0 °C
SB	25.0 °C	DB	21.6 °C	DB	22.6 °C	DB	22.0 °C	SB	21.0 °C	SB	21.0 °C
SB	25 °C	DB	21 °C	DB	22 °C	DB	22 °C	SB	21 °C	SB	21 °C

SB	26.3 °C	DB	24.0 °C	DB	29.4 °C	DB	22.0 °C	SB	20.0 °C	SB	21.0 °C
SB	25.0 °C	DB	21.6 °C	DB	22.6 °C	DB	22.0 °C	SB	21.0 °C	SB	21.0 °C
SB	25 °C	DB	21 °C	DB	22 °C	DB	22 °C	SB	21 °C	SB	21 °C

SB	40.0 °C	DB	32.8 °C
SB	57.0 °C	DB	50.5 °C
SB	33.7 °C	DB	26.0 °C

SB	20.0 °C
----	---------

SB	33.0 °C	DB	32.0 °C	SB	31.0 °C
SB	25.0 °C	DB	27.5 °C	SB	27.5 °C

SB 33.0 °C

SB 32.0 °C

SB 31.0 °C

DB 34.0 °C

DB 28.5 °C

DB 20.0 °C

SB 33.5 °C

NOTES:-

TEMPERATURE
SENSOR ARRAY
ON CAR

TUNNEL TEMPERATURE TESTS

TEMPERATURE DISTRIBUTION

TEST: MIS- 6

TIME: 11:55

TRAIN

PUSH-OUT

CHECK

LINE
SUMP

NOT

DB 26.6 °C	DB 25.4 °C	DB 31.4 °C	DB 28.5 °C	DB 25.2 °C	DB 32.0 °C
WB 22.6 °C	WB 23.0 °C	WB 25.2 °C	WB 25.0 °C	WB 29.5 °C	WB 25.4 °C
RH 71 %	RH 82 %	RH 61 %	RH 75 %	RH 64 %	RH 59.5 %

CAR 1	CAR 2	CAR 3	CAR 4	CAR 5	CAR 6
DB 35.0 °C	DB 40.0 °C	DB 40.0 °C	DB 40.0 °C	DB 40.0 °C	DB 40.0 °C
WB 35.0 °C	WB 40.0 °C	WB 40.0 °C	WB 40.0 °C	WB 40.0 °C	WB 40.0 °C
RH 35.0 %	RH 40.0 %	RH 40.0 %	RH 40.0 %	RH 40.0 %	RH 40.0 %

5B 33.3 °C	5C 49.5 °C	5A 40.0 °C
------------	------------	------------

5A 35.0 °C	5B 30.2 °C	5C 3.5 M/S
------------	------------	------------

6A 32.0 °C	6B 25.0 °C	6C 3.5 M/S
------------	------------	------------

6D 36.0 °C

6C 32.0 °C

6B 32.2 °C

6A 31.0 °C

6E 33.0 °C

9A 28.5 °C

11A 28.0 °C

NOTES:-

TEMPERATURE
SENSOR ARRAY
ON CAR 1

TUNNEL TEMPERATURE TESTS

TEMPERATURE DISTRIBUTION

TEST: MIS-6

TIME: 12:10

TRAIN

PUSH - OUT

CHECK

DB 29.4 °C	DB 26.8 °C	DB 32.9 °C	DB 29.1 °C	DB 24.4 °C	DB 33.8 °C
DB 23.9 °C	DB 23.9 °C	DB 25.9 °C	DB 25.4 °C	DB 23.9 °C	DB 23.9 °C
DB 13 °C	DB 24.5 °C	DB 27.0 °C	DB 21 °C	DB 29 °C	DB 29 °C



7B 43.3 °C	10B 35.0 °C
7C 54.0 °C	10C 50.5 °C
17A 40.0 °C	8A 33.0 °C

10A 28.0 °C

12A 33.5 °C

5C 36.1 °C

8A 28.5 °C

11A 28.0 °C

5C 34.5 °C

5B 33.5 °C

6E 33.5 °C

5A 31.5 °C

TEMPERATURE
SENSOR ARRAY

NOTES:-

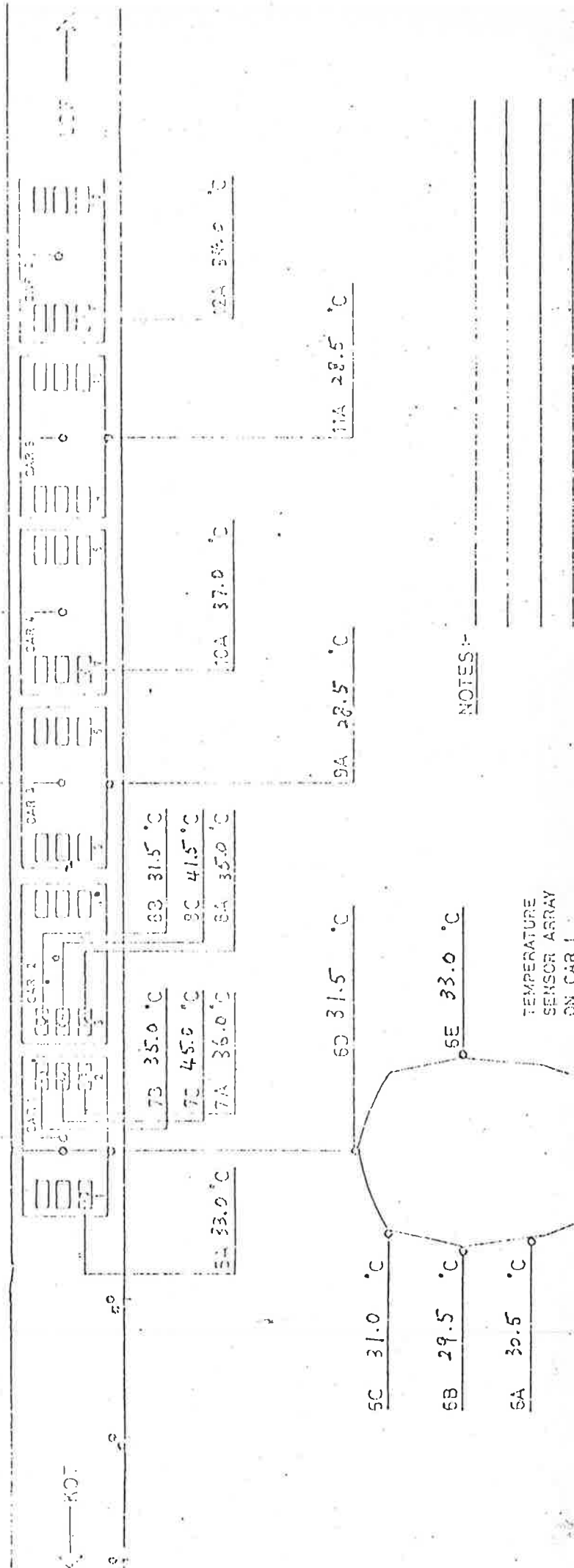
TEMPERATURE DISTRIBUTION

RESTRICTED

check

TIME: 15:42

NO READINGS AVAILABLE

[illegible]

51-01-51

TEMPERATURE
SENSOR ARRAY
ON CAR!

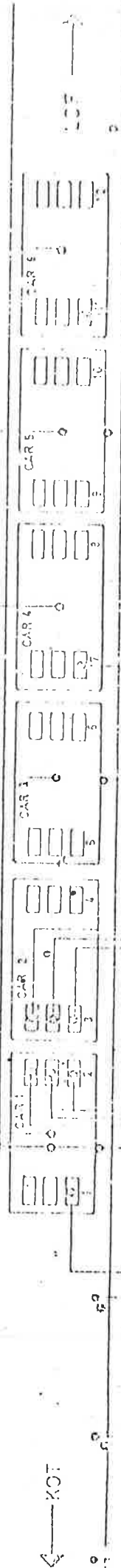
TUNNEL TEMPERATURE TESTS TEMPERATURE DISTRIBUTION

TEST: MIS- 7A

TIME: 15:45

RESTRICTED MANUAL CHECK

DB 25.4 °C	DB 25.2 °C	DB 28.4 °C	DB 27.4 °C	DB 22.9 °C	DB 26.1 °C
WB 18.6 °C	WB 21.0 °C	WB 22.6 °C	WB 21.5 °C	WB 18.2 °C	WB 21.5 °C
SH 60 %	SH 70 %	SH 60 %	SH 59 %	SH 65 %	SH 68 %



7B 41.5 °C	8B 38.0 °C
7C 54.0 °C	8C 53.5 °C
7A 43.0 °C	8A 41.5 °C

12A 35.0 °C

10A 39.0 °C

6D 32.5 °C

11A 25.0 °C

6C 32.0 °C

5B 30.0 °C

5E 32 °C

5A 30.0 °C

TEMPERATURE
SENSOR ARRAY

NOTES:-

TUNNEL TEMPERATURE TESTS

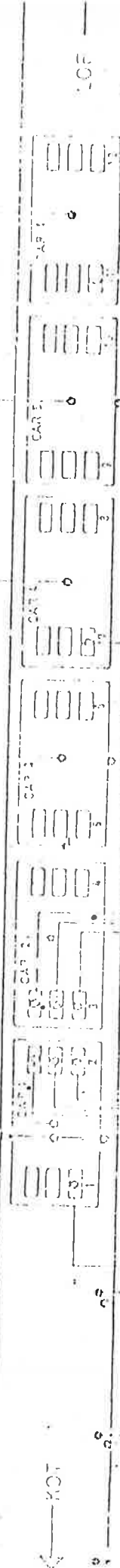
TEMPERATURE DISTRIBUTION

TEST: MIS- 78

TIME: 16:20

RESTRICTED MANUAL CHECK

DB 24.8 °C	DB 27.6 °C	DB 31.4 °C	DB 32.2 °C	DB 23.8 °C	DB 27.4 °C
WB 22.4 °C	WB 22.0 °C	WB 25.2 °C	WB 26.4 °C	WB 21.0 °C	WB 22.8 °C
RH 81 %	RH 62 %	RH 61 %	RH 62 %	RH 78 %	RH 62 %



7B 31.0 °C	8B 33.5 °C
7C 40.0 °C	8C 40.5 °C
7A 27.0 °C	8A 30.0 °C

5A 26.6 °C

10A 33.0 °C

12A 33.0 °C

5D 25.0 °C

9A 26.1 °C

11A 31.0 °C

6C 25.0 °C

6B 23.0 °C

6A 23.5 °C

6E 24.5 °C

NOTES:-

TEMPERATURE
SENSOR ARRAY

TUNNEL TEMPERATURE TESTS

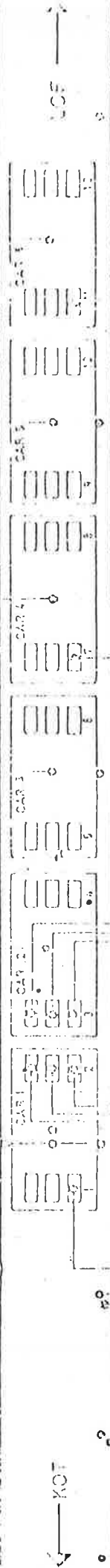
TEMPERATURE DISTRIBUTION

RESTRICTED MANUAL CHECK

TEST: MIS- 7B

TIME: 16:25

DB 26.8 °C	DB 28.6 °C	DB 31.2 °C	DB 32.3 °C	DB 26.2 °C	DB 28.4 °C
WB 22.9 °C	WB 23.7 °C	WB 25.4 °C	WB 27.8 °C	WB 20.9 °C	WB 24.8 °C
PH 71 %	PH 66 %	PH 63 %	PH 71 %	PH 58 %	PH 72 %



5D 28.5 °C

5C 23.5 °C

6B 26.0 °C

6A 26.2 °C

6E 26.2 °C

TEMPERATURE
SENSOR ARRAY
ON CAR 1

NOTES:-

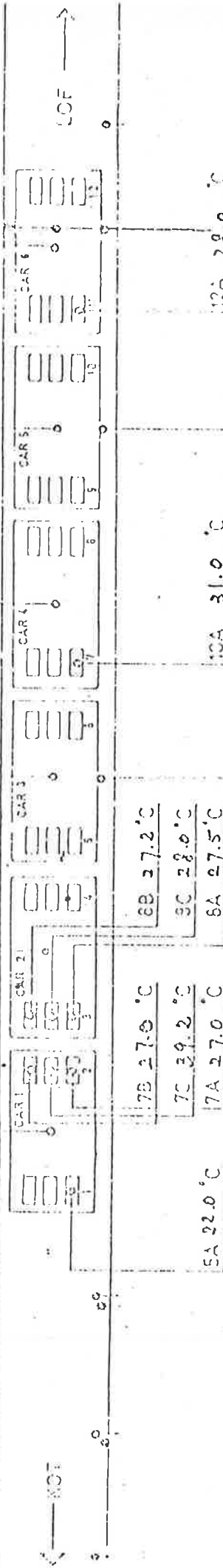
TUNNEL TEMPERATURE TESTS TEMPERATURE DISTRIBUTION

TEST: MIS- 8

TIME: 15.00

NORMAL OPERATIONS TEST

DB 25.0 °C	DB 30.4 °C	DB 30.0 °C	DB 29.2 °C	DB 25.7 °C	DB 27.3 °C
WB 22.2 °C	WB 24.0 °C	WB 24.2 °C	WB 25.6 °C	WB 20.6 °C	WB 22.8 °C
RH 78 %	RH 58 %	RH 61 %	RH 76 %	RH 63 %	RH 68 %

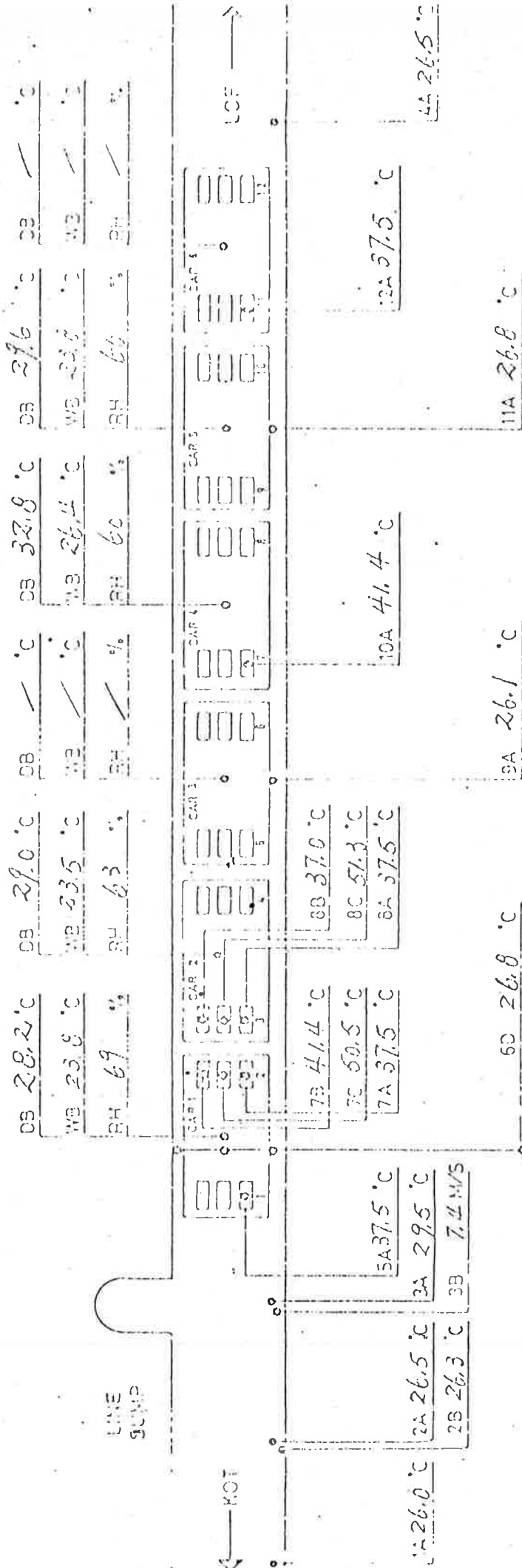


NOTES:-

TEMPERATURE DISTRIBUTION

IMPULSE FAN INTERRUPTION TEST

TIME: 15:31



NOTES

TEMPERATURE SENSOR ARRAY

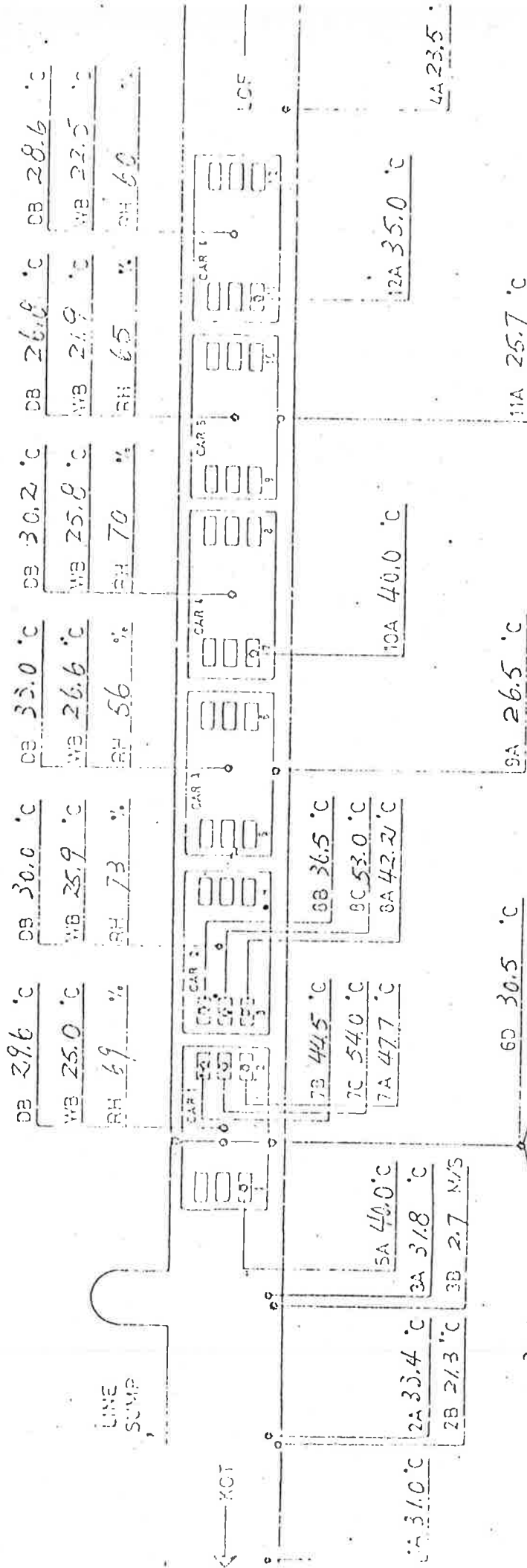
TUNNEL TEMPERATURE TESTS

TEMPERATURE DISTRIBUTION

TEST: MIS- 9

TIME: 15:40

IMPUlse FAN INTERUPTION TEST



NOTES:-

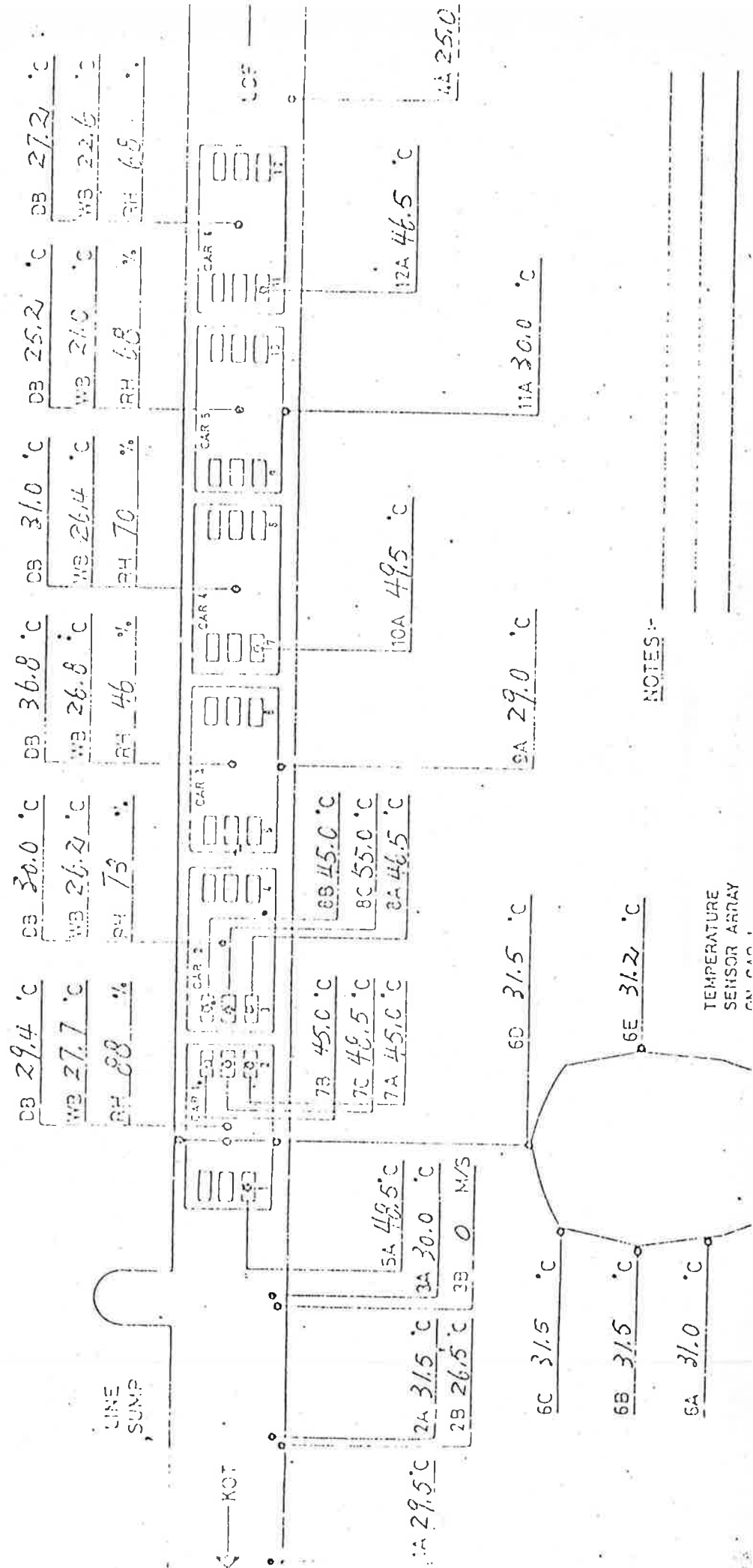
TEMPERATURE
SENSOR ARRAY
ON CAR 1

TEMPERATURE DISTRIBUTION.

TEST: MIS-9

TIME: 15:50

Impulse Fan Interruption Test



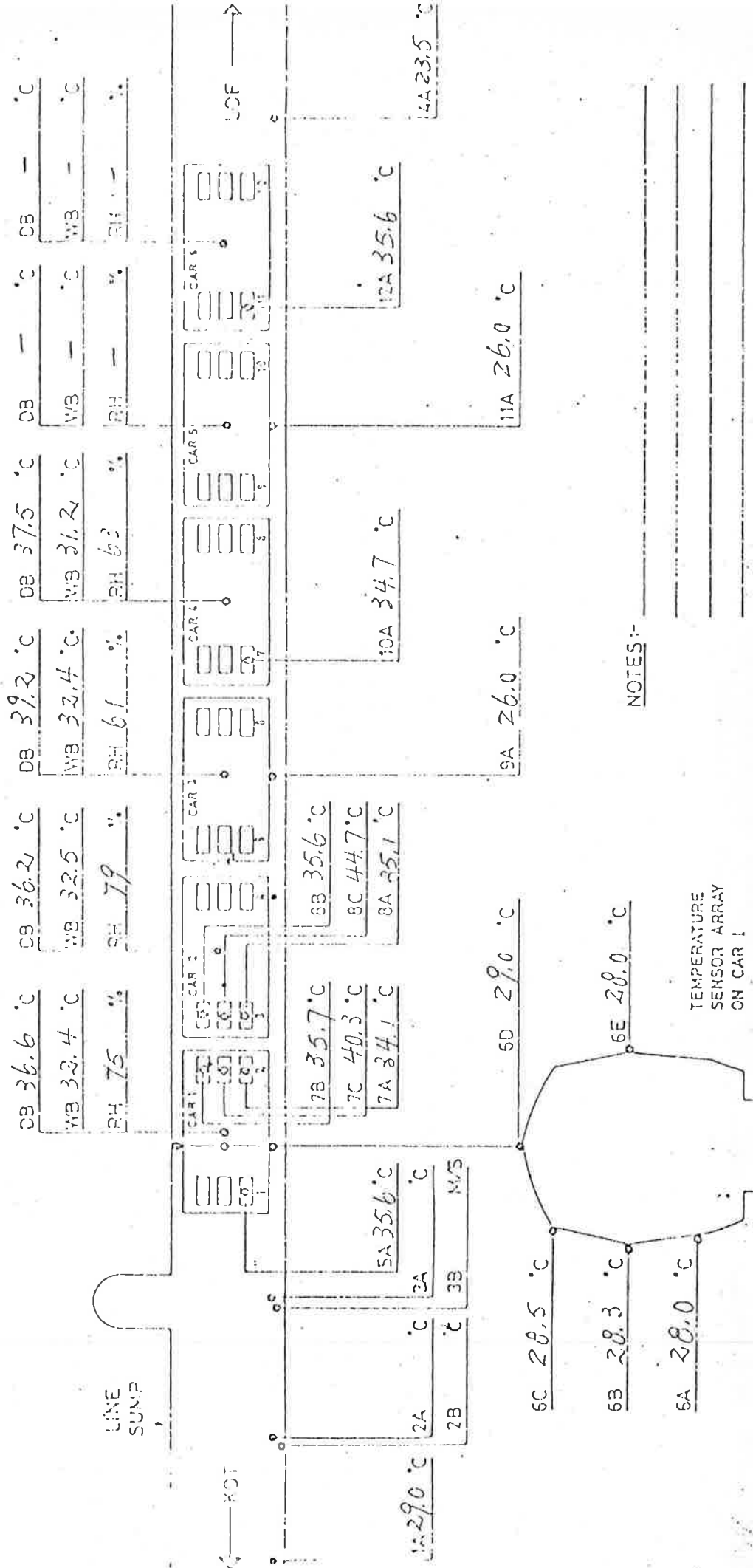
541-02

TEMPERATURE
SENSOR ARRAY
CN CAC.

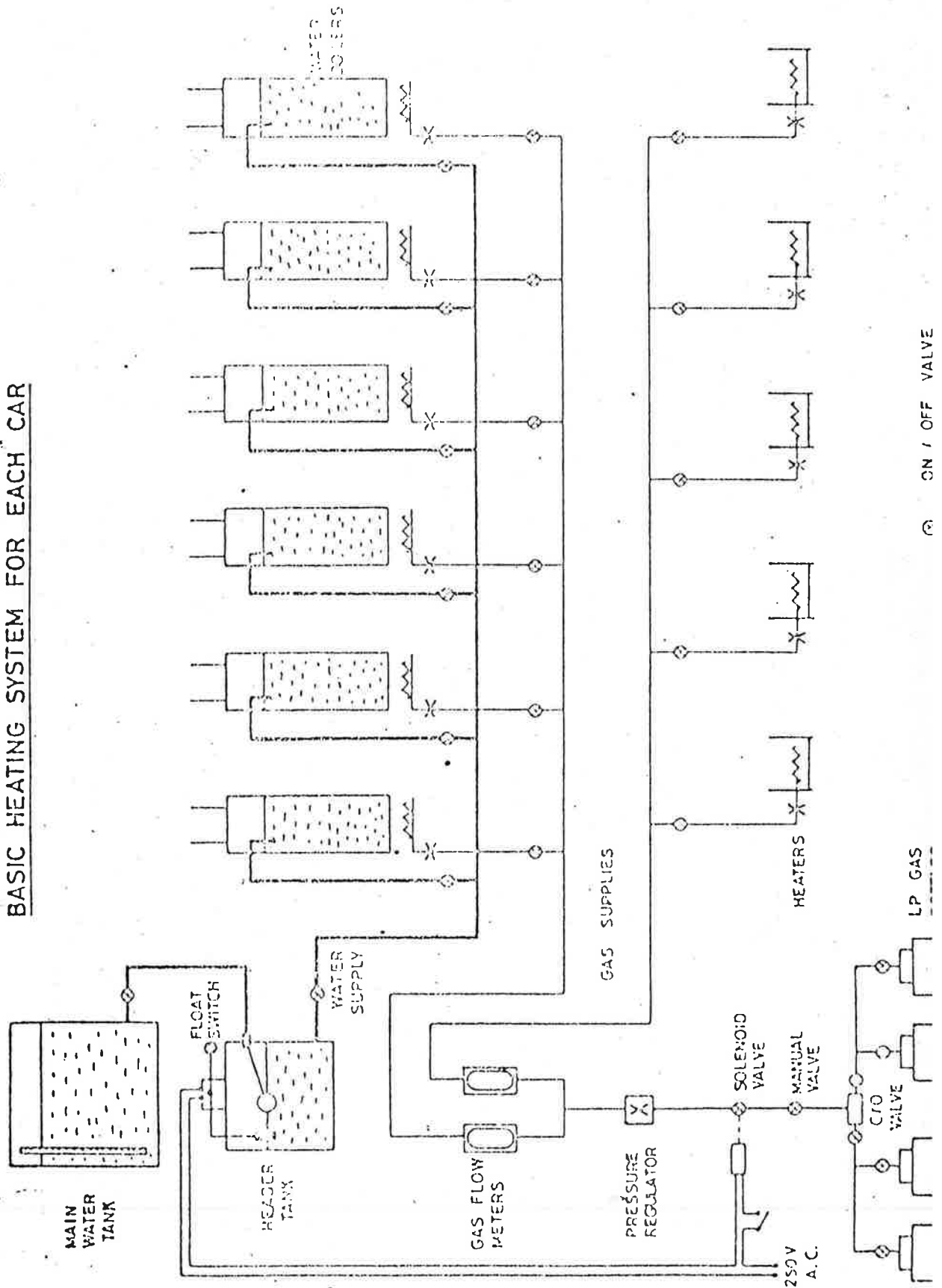
TEMPERATURE DISTRIBUTION

TIME: 16:15

IMPULSE FAN INTERRUPTION TEST



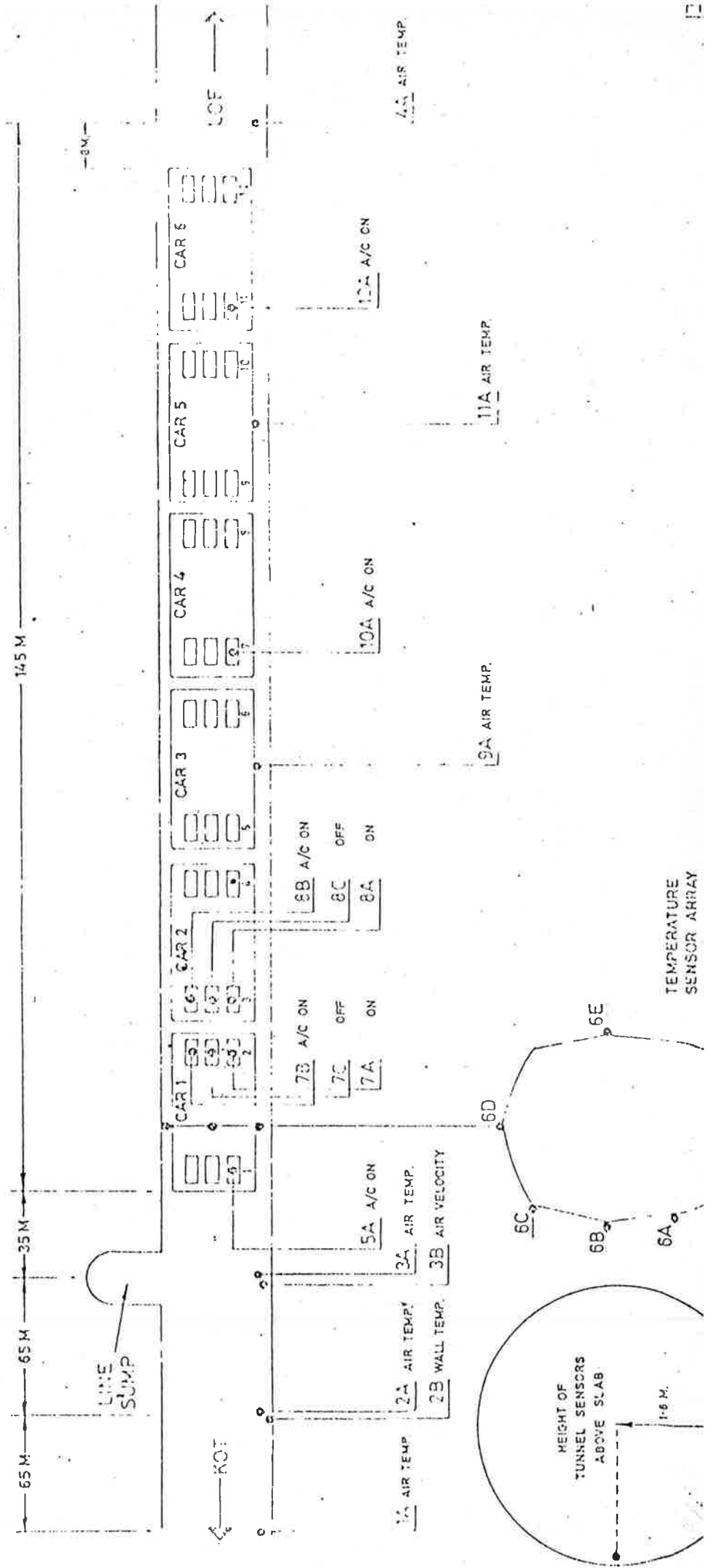
TUNNEL TEMPERATURE TESTS BASIC HEATING SYSTEM FOR EACH CAR



ON / OFF VALVE

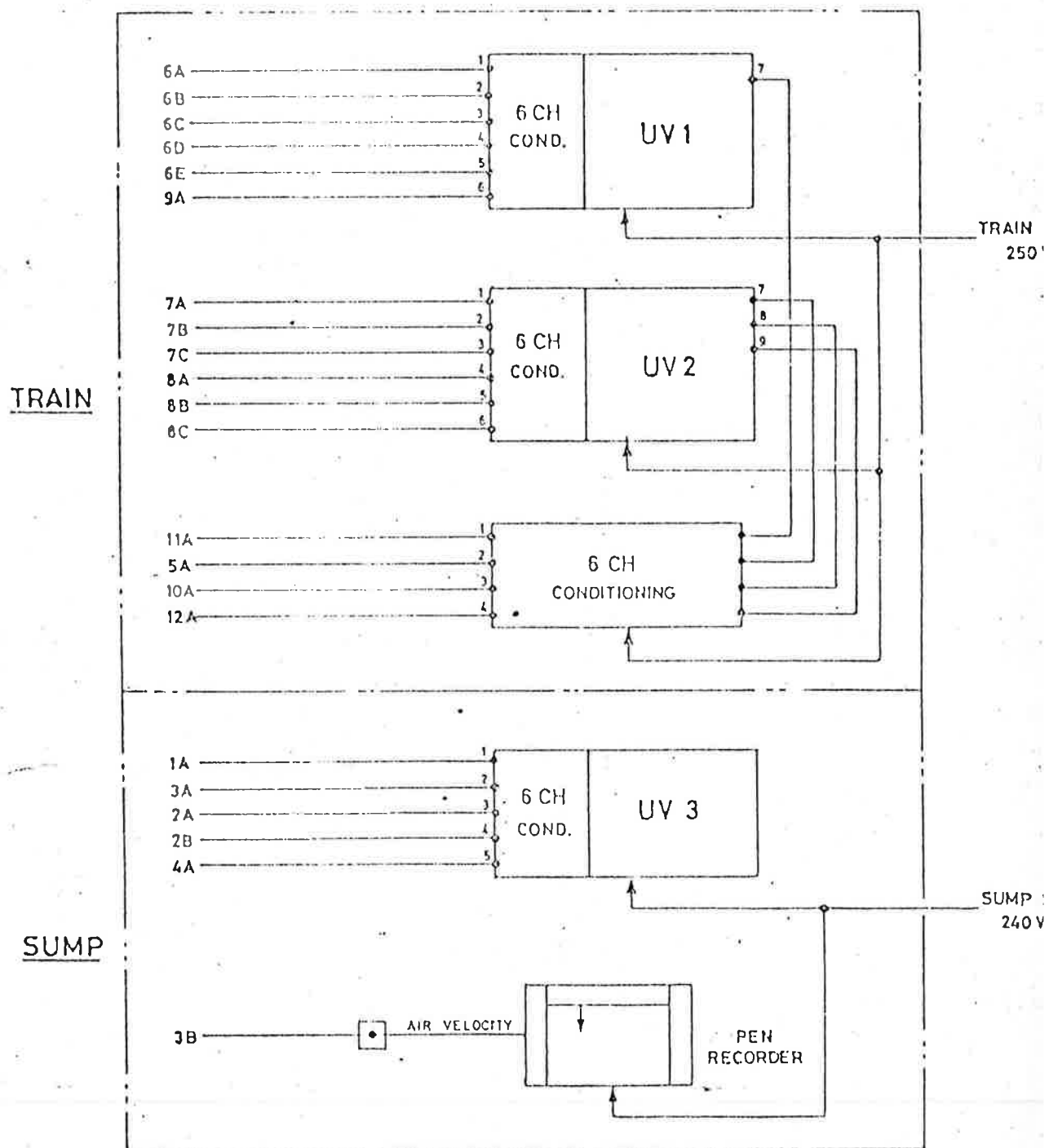
TUNNEL TEMPERATURE TESTS

LOCATION OF SENSORS



TUNNEL TEMPERATURE TESTS

BLOCK DIAGRAM RECORDING SYSTEM



UV1, UV2, UV3 ARE EACH 12 CHANNEL RECORDERS. ONLY 6 OF THE CHANNELS HAVE BUILT-IN CONDITIONING EQUIPMENT. HENCE THE NEED FOR A SEPARATE CONDITIONING UNIT ON THE TRAIN.

PSYCHOMETRIC CHART

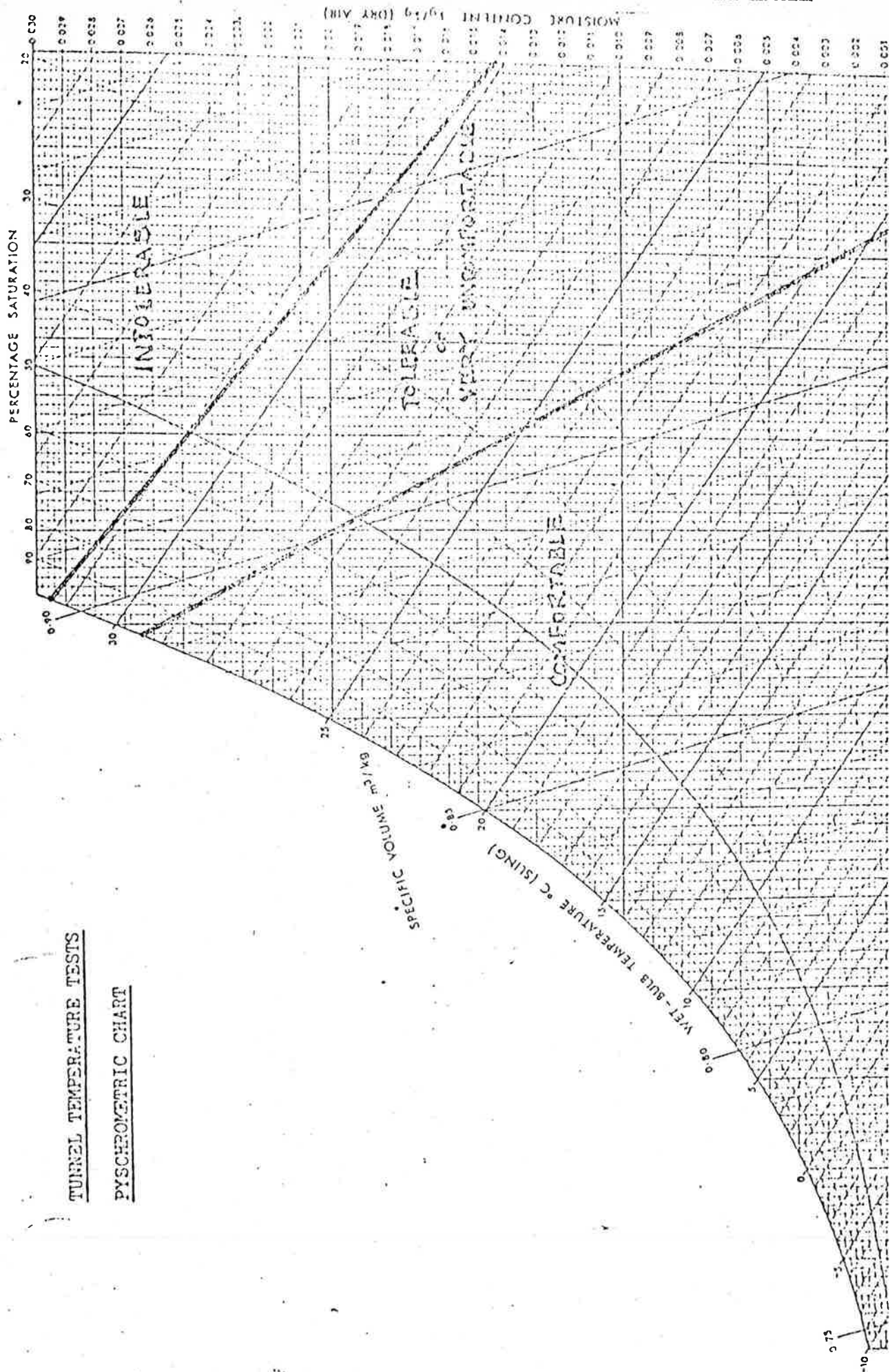


FIGURE 9

By : _____

Designation : _____

[illegible]

Heater/Boiler Log

Location : _____

By : _____

Test No. : _____

Designation :

Date : _____

Tank Level. : _____

Time Heater/Boiler Ignition Completed : _____

Time Heater/Boiler Shut-down Completed : _____

[illegible][illegible]

Notes

FIGURE G

By : _____

Designation : _____

Light

[illegible]