GR I - 146-2

UNION CARBIDE

INTERNAL CORRESPONDENCE

CHEMICALS AND PLASTICS

P. O. BOX K, KING CITY, CALIFORNIA 93930

To (Name) Mr. Paul W. McDaniel
Division Medical Department
Location 4th floor, room 202
New York

Date October 29, 1969

Originating Dept.

Answering letter date

Copy to L. F. Crow
J. L. Myers
J. A. Riddle

Subject Monthly Dust Count
King City Plant

Dear Mr. McDaniel:

Enclosed are the dust counts for the month of October at the King City plant. All samples were taken on 10/21/69 during swing shift. All circuits were operating, but the automatic palletizer was down.

G. Acosta

G. Acosta

GA/clg
encl:

PLAINTIFF'S EXHIBIT

UC-4558

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G. Acosta
10-21-69

DUST SAMPLE

COMMENT: Weather - clear, winds - 15 MPH from North, Temp. 76°F.

	SAMPLE	COMMENT	AVE. +5M	TOTAL
#1	North Fence Line	4:45 pm - 76°F 2.8 liters/min-10 min. Wind 15 MPH from North	2	19
#2	Same as #1	4:58 pm - 74°F 2.8 liters/min-10 min.	3	27
#3	South Fence Line	5:28 pm - 72°F 2.8 liters/min-10 min. Wind 17 MPH from North	6	27
#4	Same as #3	5:41 pm - 70°F 2.8 liters/min-10 min.	1	16
#5	Beside Bagger Operator (Breathing Zone)	6:20 pm - 76°F 2.8 liters/min-10 min. Palletizer not operating West door open-inside door open Wet dust return working, bagging SG-100 (pellets)	30	104
#6	Same as #5	6:55 pm - 76°F 2.8 liter/min-10 min.	20	58
#7	Riding Front End Loader	7:25 pm - 64°F 2.8 liters/min-10 min. Wind 17 MPH from North Hauling ore from stockpile to #202 Hopper	13	97
#8	Same as #7	7:40 pm - 64°F 2.8 liters/min-10 min.	9	133
#9	End of Bag Conveyor	8:40 pm - 72°F 2.8 liters/min-10 min. Bagging room door open Packaging SG-100 (pellets) Palletizer not operating	4	23

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	SAMPLE	COMMENT	AVE. +5M	TOTAL
#10	Same as #9	8:55 pm - 72°F 2.8 liters/min-10 min.	2	16
#11	Rock Fiber-Refiner Mezzanine Area	9:35 pm - 72°F 2.8 liters/min-10 min.	3	67
#12	Same as #11	9:45 pm - 72°F 2.8 liters/min-10 min.	1	15
#13	Filter Press Area	10:15 pm - 70°F 2.8 liters/min-10 min.	2	16
#14	Same as #13	10:28 pm - 68°F 2.8 liters/min-10 min.	2	12
#15	Packaging Area (Above Change Room)	10:50 pm - 69°F Bagging Room Door Open Bagging SG-100 (pellets) 2.8 liters/min-10 min,	1	26
#16	Same as #15	11:02 pm - 68°F 2.8 liters/min-10 min.	3	21

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G. Acosta
12-17-69

DUST SAMPLE

COMMENT: December 12, 1969. Weather - clear, no winds, temp. 68°F.

!	SAMPLE	COMMENT	AVE. +5M	TOTAL
#1	North Fence Line	1:55 pm - 68°F 2.8 liters/min. 10 min.	2	17
#2	Same as #1	2:08 pm - 68°F 2.8 liters/min. 10 min.	2	20
#3	South Fence Line	3:00 pm - 65°F 2.8 liters/min. 10 min. Wind 5 MPH from Northwest	1	19
#4	Same as #3	3:12 pm - 65°F 2.8 liters/min. 10 min. Wind 5 MPH	2	19
#5	Packaging Area (Above Change Room)	4:13 pm - 70°F 2.8 liters/min. 10 min. North door open - all circuits operating bagging room door open - floors in mill building being swept.	4	27
#6	Same as #5	4:28 pm - 69°F 2.8 liters/min. 10 min. Same conditions as #5	5	24
#7	Rock Fiber Refiner (Mezzanine Area)	4:55 pm - 71°F 2.8 liters/min. 10 min.	3	54
#8	Same as #7	5:07 pm - 70°F 2.8 liters/min. 10 min.	4	24
#9	Area Around Palletizer	5:30 pm - 69°F 2.8 liters/min. 10 min. West door open. Inside door open-palletizer operating-bagging SG-130 wet dust return operating-using Stoker & Black baggers.	7	37

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SAMPLE	COMMENT	AVE. +5M	TOTAL
#10 Same as #9	5:45 pm - 69°F 2.8 liters/min. 10 min.	13	46
COMMENT: December 18, 1969.	Weather - cloudy, wind 5 MPH from Southwest.		
#11 Filter Press Area	4:30 pm - 72°F 2.8 liters/min. 10 min.	1	25
#12 Same as #11	4:43 pm - 71°F 2.8 liters/min. 10 min.	6	30
#13 Riding Front End Loader	5:00 pm - 61°F 2.8 liters/min. 10 min. Wind 10 MPH from Southwest	20	193
#14 Same as #13	5:15 pm - 61°F 2.8 liters/min. 10 min. Same wind condition as #13	22	171
#15 Beside Bagger Operator	5:40 pm - 70°F 2.8 liters/min. 10 min. Bagging SG-130 using both baggers-inside west door open, palletizer working-wet dust return working.	21	45
#16 Same as #15	6:05 pm - 70°F 2.8 liters/min. 10 min. Same conditions as #15	22	73

GA/clg
12-31-69

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. Acosta
-31-70

UST SAMPLE

OMMENT: July 27, 1970. Weather-Clear, wind 27 mph from Northwest 75°F.

	SAMPLE	COMMENT	PARTICLE COUNT AVE. +5M	TOTAL
1	North Fence	5:10 pm - 75°F 2.8 liters/min., 10 min. Wind 27 mph northwest	1	19
2	Same as #1	5:25 pm - 75°F 2.8 liters/min., 10 min. Conditions same as #1	1	21
3	South Fence	6:00 pm - 72°F 2.8 liters/min., 10 min. Wind 30 mph northwest	1	25
4	Same as #3	6:20 pm - 72°F 2.8 liters/min., 10 min. Conditions same as #3	1	28
5	Bagging Circuit (At operators breathing zone)	7:00 pm - 77°F 2.8 liters/min., 10 min. Bagging HPP Inside door open-west door open Palletizer not operating Wet dust return running	7	30
	Same as #5	7:15 pm - 77°F 2.8 liters/min., 10 min. Same conditions as #5	8	48
	Front End Loader	7:30 pm - 66°F 2.8 liters/min., 10 min. Wind 30 mph northwest Hauling from stockpile to 202 Hopper	9	49
	Same as #7	7:45 pm - 66°F 2.8 liters/min., 10 min. Same wind condition Hauling from stockpile to 202 Hopper 4-Min. Leveling ore pile 6-Min.	4	40

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-31-70
3. 2.....

SAMPLE	COMMENT	PARTICLE COUNT AVE. +5M	PARTICLE COUNT TOTAL
#9 Packaging Area (Above Change Room)	9:20 pm - 70°F 2.8 liters/min., 10 min.	2	26
.0 Sames as #9	9:40 pm - 70°F 2.8 liters/min., 10 min.	2	25
.1 End of Bag Conveyor	10:00 pm - 65°F 2.8 liters/min., 10 min.	3	27
.2 Same as #11	10:15 pm - 65°F 2.8 liters/min., 10 min.	4	23
June 28, 1970			
3 Filter Press Area	4:35 pm - 82°F 2.8 liters/min., 10 min.	2	22
4 Same as #13	4:50 pm - 82°F 2.8 liters/min., 10 min.	1	19
5 Rock Fiber-Refiner	5:10 pm - 84°F 2.8 liters/min., 10 min.	3	19
o Same as #15	5:25 pm - 84°F 2.8 liters/min., 10 min.	2	18

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G. Acosta
6-29-70

DUST SAMPLE

COMMENT: June 22, 1970 Weather-clear, wind 17 mph from Northwest 80°.
Collected by G. Acosta

SAMPLE	COMMENT	PARTICLE COUNT AVE. +5M	PARTICLE COUNT TOTAL
#1 Packaging Area (Above Change Room)	4:20 pm - 80°F 2.8 liters/min., 10 min. North door open - bagging room door open Bagging HPP	1	37
#2 Same as #1	4:33 pm - 80°F 2.8 liters/min., 10 min.	1	41
#3 Rock Fiber-Refiner (Mezzanine Area)	5:00 pm - 81°F 2.8 liters/min., 10 min. Both East doors open	2	18
#4 Same as #3	9:30 pm - 75°F 2.8 liters/min., 10 min.	1	11
#5 Front End Loader	5:20 pm - 78°F 2.8 liters/min., 10 min. Wind 20 mph Northwest Hauling from stockpile to 202 Hopper Both loader doors open	1	41
6 Same as #5	5:35 pm - 78°F 2.8 liters/min., 10 min. Hauling from stockpile to 202 Hopper 5-min. Leveling ore pile 5-min.	8	51
#7 North Fence Line	6:00 pm - 73°F 2.8 liters/min., 10 min. Wind 25 mph Northwest	1	10
#8 Same as #7	6:20 pm - 73°F 2.8 liters/min., 10 min.	3	13
#9 South Fence Line	6:45 pm - 70°F 2.8 liters/min., 10 min. 20 mph Northwest	1	34

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SAMPLE	COMMENT	PARTICLE COUNT AVE. +5M	PARTICLE COUNT TOTAL
#10 Same as #9	7:00 pm - 70°F 2.8 liters/min., 10 min.	2	10

COMMENTS: June 23, 1970 All circuits running, collected by R. Bowman

#11 Filter Press Area	9:50 pm - 79°F 2.8 liters/min., 10 min.	1	13
#12 Same as #11	10:15 pm - 79°F 2.8 liters/min., 10 min.	1	24
#13 Bagging Circuit (At Bagger Operators breathing zone)	12:10 am - 60°F 2.8 liters/min., 10 min. Bagging HPO Wet dust return running. Palletizer not operating.	2	18
#14 Same as #13	12:30 am - 60°F 2.8 liters/min., 10 min.	5	20
#15 End of Bag Conveyor	12:50 am - 56°F 2.8 liters/min., 10 min. Bagging HPO	3	11
16 Same as #15	1:05 am - 56°F 2.8 liters/min., 10 min.	3	13

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(F) = FREON SAMPLER
(P) = PUMP of Electric

LOCATION AREA

(1970) (PARTICLE COUNT AVE. +5 M

SAMPLES	JAN	Feb	Mar	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC.
MAIN PRODUCT →	HPO-T			SG-44		HPO	HPP	390	HPP	Vinsenite		
Bagger Operator (Breathing Zone)	13.0			47.0		3.5	7.5	(F)/(P) 15.3/44.7	8.5	60.0		
Palletizer Area	4.5			8.0				(F)/(P) 6.3/6.7	3.0	15.0		
Rock. Fiber Refiner	2.0			1.0		1.5	2.5		3.0	3.0		
Filter Press Area				2.0		1.0	1.5		8.0	3.0		
North fence Line	1.0			2.0		2.0	1.0	(F)/(P) 0/1	1.5	2.5		
South fence Line	1.0			1.0		1.5	1.0	(F)/(P) 1/0	2.5	2.0		
Packaging Area (above changing Room)				1.5		1.0	4.0		1.5	3.5		
Front end Loader				5.5		4.5	6.5		29.0			
END of Bag Conveyor						3.0	3.5					
Wet End of Operator								(P)/(P) 0/0				
General Area								6.7				—
RG-44 Bagger Operator (Breathing Zone)								3.6				

Union Carbide trial exhibit UC-4558: G. Acosta to P. W. McDaniel Transmitting Monthly Dust Counts from the King...
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G. Acosta
1-27-70

DUST SAMPLE

COMMENT: January 27, 1970. Weather - clear, wind 35 mph from north.

SAMPLE	COMMENT	PARTICLE COUNT AVE. +5M	TOTAL
#1 North Fence Line	12:38 pm - 52°F 2.8 liters/min., 10 min. Wind 35 mph from north, clear	1	19
#2 Same as #1	12:55 pm - 52°F 2.8 liters/min., 10 min. Wind 35 mph from north, clear	1	13
#3 South Fence Line	3:38 pm - 50°F 2.8 liters/min., 10 min. Wind 40 mph from north, clear	1	30
#4 Same as #3	3:52 pm - 50°F 2.8 liters/min., 10 min. Same conditions as #3	1	20
Inside Conditions - palletizer in operation. Wet dust return not operating. Bagging HPO - T. West door open.			
#5 Palletizing Area	4:25 pm - 64°F 2.8 liters/min., 10 min.	4	173
#6 Same as #5	4:45 pm - 64°F 2.8 liters./min., 10 min.	5	227
#7 Bagger Operator (at his breathing zone)	5:10 pm - 65°F 2.8 liters/min., 10 min.	9	167
#8 Same as #7	5:35 pm - 65°F 2.8 liters/min., 10 min.	17	209
#9 Rock Fiber Refiner	7:00 pm - 72°F 2.8 liters/min., 10 min. All doors open TiO2 being dumped into circuit next to refiner circuit.	4	61
#10 Same as #9	7:27 pm - 72°F 2.8 liters/min., 10 min. Same conditions as #9	2	55

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G. Acosta
4-28-70

DUST SAMPLE

COMMENT: April 24, 1970. Weather - clear, wind 11 mph from north, 52°F.

	SAMPLE	COMMENT	PARTICLE COUNT AVE. +5M	PARTICLE COUNT TOTAL
#1	Rock Fiber-Refiner (Mezzanine Area)	8:45 pm - 69°F 2.8 liters/min., 10 min. Door to bagging room open	1	52
#2	Same as #1	9:02 pm - 69°F 2.8 liters/min., 10 min. Door to bagging room open	1	54
#3	Filter Press Area	9:20 pm - 70°F 2.8 liters/min., 10 min. Door to R-G 244 bagging room closed	2	21
#4	Same as #3	9:33 pm - 70°F 2.8 liters/min., 10 min. Same conditions as #3	2	26
#5	Palletizing Area	9:50 pm - 70°F 2.8 liters/min., 10 min. West door closed, inside door open palletizer operating-bagging SG-144 with both mills & baggers-wet dust return working.	9	55
#6	Same as #5	10:05 pm - 70°F 2.8 liters/min., 10 min. Same conditions as #5	7	45
#7	Packaging Area (above changing room)	11:05 pm - 69°F 2.8 liters/min., 10 min.	2	28
#8	Same as #7	11:20 pm - 69°F 2.8 liters/min., 10 min.	1	20

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COMMENTS: April 25, 1970.. Weather - clear, wind 35-40 mph from north, 66°F
All circuits operating.

	SAMPLE	COMMENT	AVE. +5M	TOTAL
#9	North Fence Line	4:15 pm - 66°F 2.8 liters/min., 10 min. Wind 35-40 mph from north loading 2 trucks at truck dock	3	19
#10	Same as #9	4:30 pm - 66°F 2.8 liters/min., 10 min. Same conditions as #9	1	32
#11	Front End Loader	5:15 pm - 62°F 2.8 liters/min., 10 min. Wind 22 mph from north Hauling from stockpile to #202 hopper	7	137
#12	Same as #11	5:30 pm - 61°F 2.8 liters/min., 10 min. Wind 22 mph from north	4	104
#13	South Fence Line	6:10 pm - 58°F 2.8 liters/min., 10 min. Wind 20 mph from north	1	10
#14	Same as #13	6:22 pm - 57°F 2.8 liters/min., 10 min. Wind 20 mph from north	1	25
#15	Bagging Room (at operators breathing zone)	9:30 pm - 72°F 2.8 liters/min., 10 min. Bagging SG-130, 4 broken bags using both mills & baggers wet dust return working. West door closed	44	114
#16	Same as #15	9:50 pm - 72°F 2.8 liters/min., 10 min. Same conditions as #15, only 1 broken bag	50	144

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DUST SAMPLES
August 1970

"F" - Freon Sampler)
"P" - Electric Pump) Samples were collected side by side at same time.

8-12-70

	SAMPLE	COMMENT		PARTICLE COUNT AVE. +5M	TOTAL
.F	Beside bagger Operator	2.8 liters/min., 10 min.	1st	13	102
		Bagging Standard Grade. Bag	2nd	17	128
		broke during sampling period.	3rd	16	141
.P	Same as #1F	2.8 liters/min., 10 min.	1st	20	197
		Same conditions as #1F	2nd	22	185
			3rd	26	211
F	Around Palletizer	2.8 liters/min., 10 min.	1st	9	66
		Standard Grade Fiber	2nd	5	49
			3rd	5	41
P	Same as #2F	2.8 liters/min., 10 min.	1st	6	62
		Same conditions as #2F	2nd	4	44
			3rd	10	51
F	South Fence Line	2.8 liters/min., 10 min.	1st	1	25
		Variable winds, 0-6 MPH	2nd	0	15
		from West.	3rd	1	21
?	Same as #3F	2.8 liters/min., 10 min.	1st	0	26
		Same conditions as #3F	2nd	0	26
			3rd	0	36
'	Wet End of Operation	2.8 liters/min., 10 min.	1st	0	24
		Operation down, but bagger oper-	2nd	0	28
		ating. Doors to bagger area open.	3rd	0	26
?	Same as #4F	2.8 liters/min., 10 min.	1st	0	34
		Same conditions as #4F	2nd	0	39
			3rd	0	43
'	North Fence	2.8 liters/min., 10 min.	1st	0	29
	(South edge of ponds)	Wind from NW 10-18 MPH.	2nd	0	25
			3rd	0	33

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	SAMPLE	COMMENT		PARTICLE COUNT AVE. +5M	PARTICLE COUNT TOTAL
5P	Same as #5F	2.8 liters/min., 10 min. Same conditions as #5F	1st	1	25
			2nd	1	34
			3rd	0	23
6F	Beside Bagger operator	2.8 liters/min., 10 min. Standard Grade Fiber	1st	14	119
			2nd	11	153
			3rd	10	141
6P	Same as #6F	2.8 liters/min., 10 min. Same as conditions #6F	1st	16	111
			2nd	9	96
			3rd	10	126
P	General area	2.8 liters/min., 10 min. Outside building on south side during bagging Standard Grade fiber.	1st	7	55
			2nd	5	44
			3rd	8	53
P	Sample Contaminated (Taken 8-13-70)	2.8 liters/min., 10 min. Beside operator bagging RG 244			
P	Beside bagging operator (taken 8-13-70)	2.8 liters/min., 10 min. Bagging RG 244	1st	3	23
			2nd	2	18
			3rd	6	91

-24-70

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DUST SAMPLES
September 1970

COMMENT: Sept. 21, 1970. Weather-Clear, wind 20 mph from North 88°F.

SAMPLE		COMMENT	PARTICLE COUNT AVE. +5M	PARTICLE COUNT TOTAL
#1	North Fence Line	2:25 pm - 88°F 2.8 liters/min., 10 min. Wind 20 mph North	1	15
#2	Same as #1	2:40 pm - 88°F 2.8 liters/min., 10 min. Same conditions as #1	2	12
#3	South Fence Line	3:15 pm - 86°F 2.8 liters/min., 10 min. Wind 22 mph North	2	13
#4	Same as #3	3:30 pm - 86°F 2.8 liters/min., 10 min. Same conditions as #3	3	20
#5	Beside Bagger Operator (at his breathing zone)	7:20 pm - 82°F 2.8 liters/min., 10 min. Bagging HPP	9	28
#6	Same as #5	8:00 pm - 82°F 2.8 liters/min., 10 min. Same conditions as #5	8	37
#7	Palletizing Area	8:20 pm - 70°F 2.8 liters/min., 10 min. West & South doors open	3	26
#8	Same as #7	8:40 pm - 74°F 2.8 liters/min., 10 min. Same conditions as #7	3	15
#9	Packaging Area	9:00 pm - 80°F 2.8 liters/min., 10 min.	1	5
#10	Same as #9	9:15 pm - 80°F 2.8 liters/min., 10 min.	2	10

continued.....

	SAMPLE	COMMENT	PARTICLE COUNT AVE. + 5M	PARTICLE COUNT TOTAL
1	Filter Press Area	11:05 pm - 80°F 2.8 liters/min., 10 min. Mill making Standard Grade Product	12	48
2	Same as #11	11:20 pm - 80°F 2.8 liters/min., 10 min. Same conditions as #11	4	33

COMMENT: Sept. 22, 1970. Weather-55°F, Wind 10 mph Northeast.

3	Rock Fiber & Refiner (Mezzanine Area)	6:45 am - 66°F 2.8 liters/min., 10 min. Mill making Standard Grade Product	4	36
4	Same as #13	7:04 am - 66°F 2.8 liters/min., 10 min. Same conditions as #13	2	40
5	Front End Loader	7:20 am - 55°F 2.8 liters/min., 10 min. Wind 10 mph Northeast	28	131
6	Same as #15	7:35 am - 55°F 2.8 liters/min., 10 min. Same conditions as #15	30	124

DUST SAMPLES

October 1970

SAMPLE	COMMENT	PARTICLE COUNT AVE. +5M	PARTICLE COUNT TOTAL
#1 North Fence Line	2:30 pm - 66°F 2.8 liters/min., 10 min. Wind 3 mph from North	3	m 13
#2 Same as #1	2:45 pm - 66°F 2.8 liters/min., 10 min. Same conditions as #1	2	16
#3 South Fence Line	3:10 pm - 68°F 2.8 liters/min., 10 min. Wind 5 mph from North	2	13
#4 Same as #3	3:25 pm - 68°F 2.8 liters/min., 10 min. Same conditions as #3	2	15
#5 Rock Fiber & Refiner Mezzanine Area	5:50 pm - 68°F 2.8 liters/min., 10 min. Making Standard Grade Product Both East Doors Open.	4	21
#6 Same as #5	6:05 pm - 68°F 2.8 liters/min., 10 min. Same conditions as #5	2	21
#7 Packaging Area	6:25 pm - 68°F 2.8 liters/min., 10 min. Bagging Room Door Open North Door Open	4	10
#8 Same as #7	6:40 pm - 69°F 2.8 liters/min., 10 min. Bagging Room Door Open North Door Closed	3	18
#9 Filter Press Area	7:50 pm - 70°F 2.8 liters/min., 10 min.	4	28
#10 Same as #9	8:05 pm - 70°F 2.8 liters/min., 10 min.	2	15

Continued.....

October 1970
Dust Samples

SAMPLE	COMMENT	PARTICLE COUNT AVE. +5M	PARTICLE COUNT TOTAL
#11 Palletizing Area	8:20 pm - 64°F 2.8 liters/min., 10 min. Bagging Visbestos with Both Baggers Palletizer operating, inside door open, South Door Open.	20	78
#12 Same as #11	8:35 pm - 64°F 2.8 liters/min., 10 min. Same conditions as #11	10	40
#13 At Bagger Operators Breathing Zone	9:00 pm - 65°F 2.8 liters/min., 10 min. Bagging Visbestos with both baggers Palletizer & wet dust return operating South Door Open.	63	173
#14 Same as #13	9:15 pm - 65°F 2.8 liters/min., 10 min. Same conditions as #13	57	123

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10-26-70

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