

SUMMARY OF OPERATIONS - FEBRUARY - MARCH 1982

Howard Fenker, Program Planning Office

Experimental operations continued for the last two months with beam being delivered 970 hours out of 1230 hours scheduled. Major interruptions were caused by shorted Main-Ring magnets and septa, ion-source problems, and a 3-day shutdown for work on Doubler components. On March 17 a new 400 GeV/c intensity record was set when 3.194×10^{13} protons were delivered in one pulse. As a result of the work done by accelerator crews in reaching this peak intensity, it has not been unusual to see the Main Ring operate at or near 3×10^{13} protons per pulse for long periods of time.

Experiment 594 in the Neutrino Area made good use of the increased available intensity in their study of neutral-current reactions. This group has been exposing the flash-tube calorimeter to a 1-millisecond high-intensity neutrino beam. In the same beam line, the neutrino-oscillation experiment E-701 has been taking data at the highest rate possible. To facilitate this effort the accelerator has been asked to produce several high-intensity bursts to beam ("super pings") during the 1-second slow spill. Preliminary tests of this running mode have been carried out and look very promising.

Two groups of experimenters have been using the 30-inch bubble chamber and associated external tracking devices. A total of 660,000 pictures have been taken by the E-565/570 and E-597 collaborations.

The Proton and Meson areas have seen several experiments come and go during these two months. A study of antiproton production of dimuons (E-537) finished running in the High Intensity Area and was replaced by E-326, which is studying dimuon production by pions. E-630, a high-resolution streamer-chamber charm search, completed data taking in Proton-Center. This area is now being readied for Transition Magnetic Moment E-619, which will be run by the same collaboration that recently completed the neutral-hyperon study in M2 (E-555). The TREAD time projection chamber has been in use in E-612 (P-East), which is investigating diffractive photon dissociation on hydrogen.

The CP violation experiment in M3, E-617, took data for all of the available time during this period. Hadron Jets E-609 would have enjoyed doing the same thing but has been plagued with M6 superconducting-magnet problems. Particle Search E-515 completed their run in M1, and E-613 (Beam Dump) has begun taking test data in M2. The M4 beam line has been used both by the Collider Detector Facility for extensive development tests of various calorimeters and tracking chambers and by E-660, a study of the deflection of particle beams by bent crystals.

FERMI NATIONAL ACCELERATOR LABORATORY
 MONTHLY OPERATIONS HISTORY
 FEBRUARY 1982

DATE	ACCELERATOR	PROTON AREA	NEUTRINO AREA	MESON AREA
Mon. 2/1	~2.3x10 ¹³ ppp	537 (PW)	594/701 (N0)	555 (M2)
Tue. 2/2	@400 GeV/c	612 (PE)	DPI Test (N7)	OFF (M6)
Wed. 2/3	1.0 sec flattop	630 (PC)	673 (N1)	617 Test (M3) 515 (M1) CDF (M4)
Thu. 2/4	Accelerator Maintenance & Development (Studies 0600-1200)			
Fri. 2/5	~2.3x10 ¹³ ppp	537 (PW)	594/701 (N0)	555 (M2),
Sat. 2/6	@400 GeV/c	612 (PE)	673 (N1)	609 (M6)
Sun. 2/7	1.0 sec flattop	630 (PC)	565/570 (N7)	617 Test (M3) 515 (M1) CDF (M4)
Mon. 2/8	Energy Doubler Safety Tests			
Tue. 2/9	~2.5x10 ¹³ ppp	537 (PW)	594/701 (N0)	555 (M2), 609 (M6)
Wed. 2/10	@400 GeV/c	612 (PE)	565/570 (N7)	617 Test (M3)
Thu. 2/11		630 (PC)	673 (N1)	515 (M1), CDF (M4)
Fri. 2/12	~2.5x10 ¹³ ppp	537 (PW)	594/701 (N0)	555 (M2)
Sat. 2/13	@400 GeV/c	612 (PE)	565/570 (N7)	609 (M6)
Sun. 2/14	1.0 sec flattop	630 (PC)	673 (N1)	515 (M1)
Mon. 2/15				617 Test (M3)
Tue. 2/16				CDF (M4)
Wed. 2/17				End 555
Thu. 2/18	Accelerator Studies			
Fri. 2/19	~2.4x10 ¹³ ppp	537 (PW)	594/701 (N0)	617 (M3)
Sat. 2/20		630 (PC)	673 (N1)	609 (M6)
Sun. 2/21	Replace Extr. Septum	400 (PE)	565/570 (N7)	515 (M1) CDF (M4) OFF (M2)
Mon. 2/22	~2.2x10 ¹³ ppp			
Tue. 2/23	@400 GeV/c			
Wed. 2/24				
Thu. 2/25	Accelerator Maintenance & Development			
Fri. 2/26	Replace MR Dipoles			
Sat. 2/27	~2.0x10 ¹³ ppp	537 (PW)	594/701 (N0)	617 (M3)
Sun. 2/28	Replace MR Dipole	630 (PC)	673 (N1)	609 (M6)
	~2.0x10 ¹³ ppp	400 (PE)	565/570 (N7)	515 (M1) CDF (M4) OFF (M2)

FERMI NATIONAL ACCELERATOR LABORATORY
MONTHLY OPERATIONS HISTORY
MARCH 1982

DATE	ACCELERATOR	PROTON AREA	NEUTRINO AREA	MESON AREA
Mon. 3/1	~2.2x10 ¹³ ppp @400 GeV	630 (PC) 400 (PE) 326 (PW)	<u>End 537</u> 594/701 (N0) 673 (N1) 565/570 (N7)	617 (M3), OFF (M6), 515 (M1), CDF (M4), OFF (M2)
Wed. 3/3	Accelerator Studies			
Thu. 3/4	Accelerator Maintenance & Development			
Fri. 3/5	~1.6x10 ¹³ ppp M.R. Power Problems	630 (PC) 400 (PE)	594/701 (N0) 673 (N1)	617 (M3) OFF (M6)
Sat. 3/6	~2.0x10 ¹³ ppp	326 (PW)	565/570 (N7)	515 (M1) CDF (M4) OFF (M2)
Sun. 3/7				
Mon. 3/8	~2.1x10 ¹³ ppp @400 GeV/c			
Tue. 3/9				
Wed. 3/10				End 515
Thu. 3/11	Accelerator Studies			
Thu. 3/11	Accelerator Maintenance & Development			
Fri. 3/12	Stuck Wire Scanner ~2.3x10 ¹³ ppp @400 GeV/c	630 (PC) 326 (PW) 400 (PE)	594/701 (N0) 673 (N1) 565/570 (N7)	617 (M3) 609 (M6) CDF (M4) OFF (M2)
Sat. 3/13				OFF (M1)
Sun. 3/14				
Mon. 3/15	ES38 & ES39 Power		<u>End 630</u> 673 Calib. (N1)	
Tue. 3/16	~2.8x10 ¹³ ppp	326 (PW) 612 (PE)		
Wed. 3/17	New Record: 3.194x10 ¹³	OFF (PC)		
Thu. 3/18	Accelerator Studies and Necessary Repairs			
Fri. 3/19	~2.4x10 ¹³ ppp Replace M.R. Dipole	326 (PW) 612 (PE)	594/701 (N0) 565/570 (N7)	617 (M3) 609 (M6)
Sat. 3/20	~2.4x10 ¹³ ppp Repl. & Align ES38	OFF (PC)	673 Calib. (N1)	CDF (M4) OFF (M2)
Sun. 3/21	Accelerator Clock			OFF (M1)
Mon. 3/22	~2.5x10 ¹³ ppp			
Tue. 3/23	ES37 Shorted			
Wed. 3/24	~2.3x10 ¹³ ppp			
Thu. 3/25	Accelerator Maintenance & Development			
Fri. 3/26	~2.7x10 ¹³ ppp @400 GeV/c	326 (PW) 612 (PE)	701/594 (N0) 597 (N1)	609 (M6) 613 (M2)
Sat. 3/27	1.0 sec flattop	OFF (PC)	673 (N1)	617 (M2) CDF (M4) OFF (M1)
Sun. 3/28				
Mon. 3/29	~2.9x10 ¹³ ppp			
Tue. 3/30	Accelerator Maintenance & Development			
Wed. 3/31				

BEAM UTILIZATION BY

	<u>Beam</u>	<u>Hours</u>
PROTON AREA		
Dimuon #326	PW	290
Particle Search #400	PE	280
Dimuon #537	PW	390
Photodissociation #612	PE	490
Charm Search #630	PC	480
NEUTRINO AREA		
30-in. Hybrid #565/570	N7	-
Neutrino #594	N0	890
30-in. Hybrid #597	N7	-
Chi Meson #673	N1	690
Neutrino Oscillations #701	N0	840
MESON AREA		
Particle Search #515	M1	420
Neutral Hyperon #555	M2	260
High Mass Pairs #605	M1	20
Hadron Jets #609	M6	330
Beam Dump #613	M2	80
CP Violation #617	M3	770
CDF Development	M4	790
TOTAL HOURS FOR HIGH ENERGY PHYSICS		<u>7020</u>

EXPERIMENTAL ACTIVITY - FEBRUARY and MARCH 1982

Activities

startup and dimuon data: nights and weekends
beam tuning and counter timing
high-intensity data; open geometry tests; experiment completed
data using time-projection chamber; completed
streamer chamber data on charm production; completed

577K pictures: 30-in. H₂ bubble chamber with foil inserts
neutrino interaction data
80K pix in the 30-in. bubble chamber
data: Chicago Cyclotron Magnet spectrometer
neutrino oscillation data

tests and data; with and without active target; completed
data; experiment completed
beam line and detector setup
tuning; calibration of calorimeter; data
setup; background studies
rate and targeting tests; data
detector development

FACILITY UTILIZATION SUMMARY - FEBRUARY 1982

I. Summary of Accelerator Operations

	<u>Hours</u>
A. Accelerator use for physics research	
High energy physics research	472.6
Accelerator physics research	16.7
Subtotal	489.3
B. Other Activities	
Program interruption	73.0
Accelerator setup and tuning to experimental areas	-
Subtotal	73.0
C. Unscheduled interruption	109.7
D. Unmanned time	-
Total	672.0

II. Summaries of High Energy Physics Research Use

	<u># of Expts.</u>	<u>Hours</u>	<u>Results</u>
A. Counter experiments	11	3330	2 exp. completed
B. Bubble chamber experiments	1		240K pictures
C. Emulsion experiments			
D. Special target experiments	1		4 targets exposed
E. Test experiments			
F. Engineering studies and tests	1	360	
G. Other Beam Use			
Totals	<u>14</u>	<u>3690</u>	

III. Number of Protons Accelerated and Delivered ($\times 10^{17}$)

A. Beam accelerated in Main Ring	28.8
B. Beam delivered to experimental areas	25.8
Proton Area	7.9
Neutrino Area	
Slow Spill	1.2
Fast Spill	13.5
Meson Area	3.2

FACILITY UTILIZATION SUMMARY - MARCH 1982

I. Summary of Accelerator Operations

	<u>Hours</u>
A. Accelerator use for physics research	
High energy physics research	497.2
Accelerator physics research	23.8
Subtotal	521.0
B. Other Activities	
Program interruption	92.5
Accelerator setup and tuning to experimental areas	-
Subtotal	92.5
C. Unscheduled interruption	130.5
D. Unmanned time	-
Total	744.0

II. Summaries of High Energy Physics Research Use

	<u># of Expts.</u>	<u>Hours</u>	<u>Results</u>
A. Counter experiments	12	2900	2 exp. completed
B. Bubble chamber experiments	2	-	418K pictures
C. Emulsion experiments			
D. Special target experiments	1	-	4 targets exposed
E. Test experiments			
F. Engineering studies and tests	1	430	
G. Other Beam Use			
Totals	<u>16</u>	<u>3330</u>	

III. Number of Protons Accelerated and Delivered ($\times 10^{17}$)

A. Beam accelerated in Main Ring	32.1
B. Beam delivered to experimental areas	29.5
Proton Area	4.6
Neutrino Area	
Slow Spill	1.1
Fast Spill	17.4
Meson Area	6.4

SITUATION REPORT -- APRIL 1982

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FERMILAB NATIONAL ACCELERATOR LABORATORY
EXPERIMENTAL PROGRAM SITUATION REPORT

PROGRAM PLANNING OFFICE
16 APR 1982

THE EXPERIMENTAL PROGRAM SITUATION AT FERMILAB IS SUMMARIZED BELOW. THE EXPERIMENTS ARE LISTED BY EXPERIMENTAL AREA AND DEAMINE UNDER CATEGORIES THAT BEST DESCRIBE THEIR STATUS ON APRIL 1, 1982. FOR EXPERIMENTS WHICH HAVE BEEN COMPLETED OR HAVE RECEIVED BEAM, THE AMOUNT OF RUNNING TIME OR EXPOSURE TO DATE IS LISTED. THE EXPERIMENTAL AREA NAMES ARE ABBREVIATED AS FOLLOWS: MESON AREA (MA), NEUTRINO AREA (NA), PROTON AREA (PA), INTERNAL TARGET AREA (ITA), AND COLLISION AREA (COL). PROPOSALS OR EXPERIMENTS THAT ARE REQUESTING TEVATRON ENERGY ARE PROCEEDED BY TEV.

TOTAL NUMBER OF APPROVED EXPERIMENTS - 322

AREA-BEAM		SPOKESPERSON	TOTAL RUN	DATE COMPLETED
A. EXPERIMENTS THAT HAVE COMPLETED DATA TAKING (202):				
(ONLY EXPERIMENTS COMPLETED SINCE 01 JAN 1982 ARE LISTED BELOW)				
MA-M1	PARTICLE SEARCH #515	ROSEN	2,650 HOURS	10 MAR 1982
-M2	NEUTRAL HYPERON #555	DEVLIN	650 HOURS	17 FEB 1982
PA-PC	CHARM PARTICLE #630	SANDWEISS	1,150 HOURS	15 MAR 1982
-PW	DI-MUON #537	COX	2,700 HOURS	28 FEB 1982

B. EXPERIMENTS THAT ARE IN PROGRESS (17):				
			TOTAL RUN TO DATE	DATE OF RECENT RUN
MA-M2	BEAM DUMP #613	ROE	1,250 HOURS	1 APR 1982
-M3	CP VIOLATION #617	WINSTEIN	1,250 HOURS	1 APR 1982
-M4	CHANNELING #660	GIBSON	150 HOURS	1 FEB 1982
-M6	HADRON JETS #557	ZIEMINSKI	600 HOURS	1 JUN 1981
	PARTICLE SEARCH #580	GREEN	800 HOURS	1 JUN 1981
NA-NO-DICHROM	HADRON JETS #609	SELWIE	300 HOURS	1 APR 1982
	NEUTRINO #590	WALKER	3,500 HOURS	1 APR 1982
	NEUTRINO OSCILLATION #701	SHAEVITZ	1,200 HOURS	1 APR 1982
-NO-WB HORN	15-FOOT ANTI-NEUTRINO/H26NE#180	ERMOLOV	273K PIX	1 JUN 1977
-MUON/HADRON	CHI MESON #673	COOPER	1,000 HOURS	1 APR 1982
-30 INCH	30-INCH HYBRID #565	PLESS	640K PIX	1 APR 1982
	30-INCH HYBRID #570	PLESS	640K PIX	1 APR 1982
	30-INCH HYBRID #597	WHITMORE	157K PIX	1 APR 1982
-OTHER	NUCLEAR FRAGMENTS #466	SUGARNAN	66 TARGETS EXPOSED	1 APR 1982
PA-PE	PARTICLE SEARCH #400	BUTLER	300 HOURS	1 APR 1982
	PHOTON DISSOCIATION #612	GOLIANSOS	1,700 HOURS	1 APR 1982
-PW	DI-MUON #326	SHOCHET	1,750 HOURS	1 APR 1982

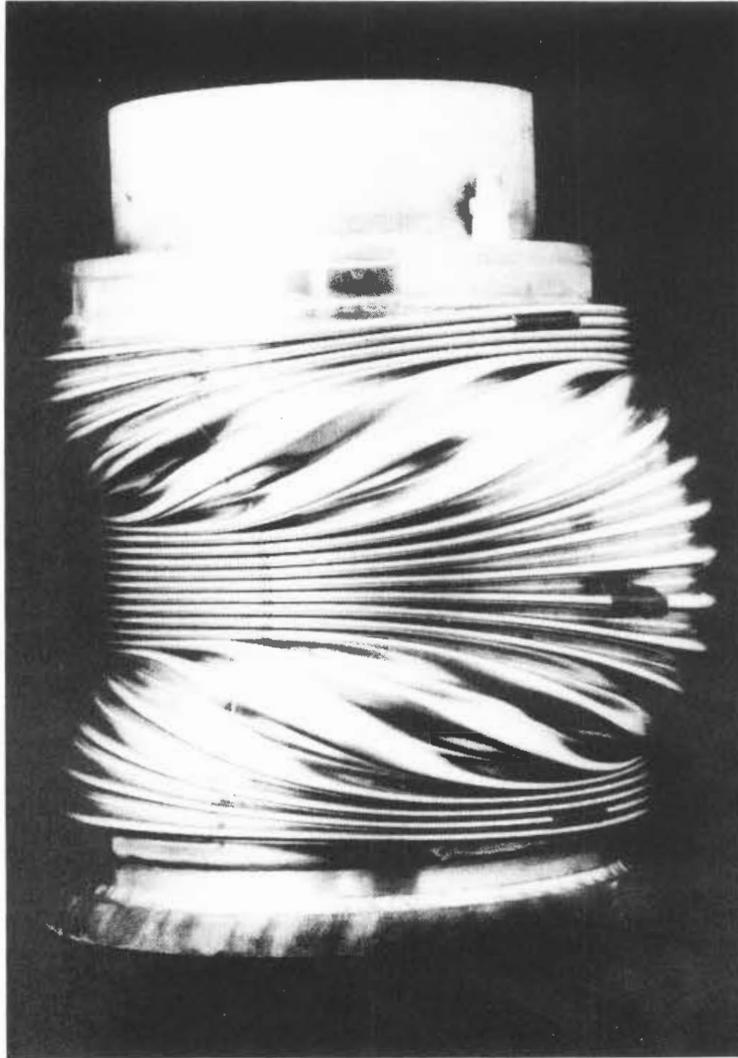
C. EXPERIMENTS THAT ARE IN TEST STAGE (2):				
			TOTAL RUN TO DATE	DATE OF RECENT RUN
MA-M1	HIGH MASS PAIRS #605	BROWN	20 HOURS	1 APR 1982
-M6	PARTICLE SEARCH #623	GREEN	60 HOURS	1 JUN 1981

D. EXPERIMENTS BEING INSTALLED (2):				
APPROVAL				
PA-PC	TRANSITION MAGNETIC MOMENT #619	DEVLIN	250 HOURS	
-PW	FORWARD SEARCH #615	ANDERSON	1,000 HOURS	

F. OTHER APPROVED EXPERIMENTS (19):				
APPROVAL				
NA-NO-HCFM	15-FOOT ANTI-NEUTRINO/D2 #390	GARFINKEL	250K PIX	
-OTHER	EMULSION/PROTONS @ 500 #508	WOLTER	EMULSION EXPOSURE	
	EMULSION/PROTONS @ 500 #524	WILKES	EMULSION EXPOSURE	
	QUARK #549	LONGO	PARASITIC RUNNING	
	EMULSION/PROTONS @ 500 #576	HEBERT	3 STACKS	
PA-PE	PHOTOPRODUCTION #458	LEE	UNSPECIFIED	
TEV- MA-ECL BEAM	POLARIZED BEAM #704	YOKOSAWA	UNSPECIFIED	
- MA-M6	HADRON JET #672	DZIERBA	UNSPECIFIED	
	DIRECT PHOTON #706	SLATTERY	UNSPECIFIED	
TEV- NA-NEUTRINO	NEUTRINO #652	SCIULLI	UNSPECIFIED	
- NA-EM DUMP	BEAM DUMP #636	PLESS	UNSPECIFIED	
	15-FT BEAM DUMP #646	SALTAY	UNSPECIFIED	
- NA-MUON	MUON #640	LOKEN	1,000 HOURS	
	TEVATRON MUON #665	KIRK	UNSPECIFIED	
- NA-M1	PARTICLE SEARCH #690	KNAPP	UNSPECIFIED	
TEV- PA-PE	PHOTOPRODUCTION #687	BUTLER	UNSPECIFIED	
- PA-PC	CP VIOLATION #621	THOMSON	UNSPECIFIED	
	PARTICLE SEARCH #653	REAY	UNSPECIFIED	
- PA-PW	CHI MESON #705	COX	UNSPECIFIED	

G. PENDING PROPOSALS (36):				
REQUEST				
MA-M2	BEAM DUMP #716	ROE	UNSPECIFIED	
PA-PC	SIGMA BETA DECAY #715	COOPER	UNSPECIFIED	
ITA-C O	PARTICLE SEARCH #702	GLASS	400 HOURS	
TEV- MA-ECL BEAM	POLARIZED BEAM #682	UNDERWOOD	1,700 HOURS	
	POLARIZED BEAM #688	DITZLER	400 HOURS	
	POLARIZED BEAM #699	STANEK	1,000 HOURS	
- MA-M6	PARTICLE SEARCH #684	LAI	1,000 HOURS	
	PARTICLE SEARCH #696	TROWER	UNSPECIFIED	
TEV- NA-NEUTRINO	15-FT NEUTRINO/H26 NE #632	MORRISON	250K PIX	

AREA-EEAM		SPOKESPERSON	REQUEST
PENDING PROPOSALS (CONT'D)			
	NEUTRINO #635	MO	UNSPECIFIED
	15-FT NEUTRINO/D2 #637	AMMOSOV	UNSPECIFIED
	15-FT NEUTRINO #641	KITAGAKI	200K PIX
	HYBRID NEUTRINO #647	PETERSON	UNSPECIFIED
	NEUTRINO #649	TAYLOR	UNSPECIFIED
	15-FT NEUTRINO/D2 #651	MILLER	100K PIX
- NA-FM DUMP	BEAM DUMP #644	LONGO	2,000 HOURS
	BEAM DUMP #656	WHITAKER	UNSPECIFIED
	NEUTRINO OSCILLATION #700	MILLER	UNSPECIFIED
TEV-PA-PE	PHOTON DISSOCIATION #670	GOUJANOS	UNSPECIFIED
	PHOTOPRODUCTION OF JETS #683	CORNELL	1,500 HOURS
	TAGGED PHOTON #691	NASH	1,000 HOURS
- PA-DW	DI-MUON #671	COPE	UNSPECIFIED
	LEFTON PAIR #693	MCDONALD	1,000 HOURS
TEV-ITA-C 0	PROTON-PROTON SCATTERING #500D	FRANZINI	1,000 HOURS
	P-P AND P-D SCATTERING #681	GUTAY	950 HOURS
TEV-CGL-D 0	ELECTRON TARGET FACILITY #703	FRISKEN	1,000 HOURS
	ELECTRON TARGET FACILITY #708	LEE	UNSPECIFIED
	FORWARD DETECTOR #709	LONGO	UNSPECIFIED
	TOTAL CROSS-SECTION #710	RUBINSTEIN	UNSPECIFIED
	MUON PRODUCTION #712	BAPP	UNSPECIFIED
	HIGHLY IONIZING PARTICLES #713	PRICE	UNSPECIFIED
	LARGE ANGLE PARTICLE #714	GRANNIS	UNSPECIFIED
	FORWARD DETECTOR #717	LACH	UNSPECIFIED
TEV-UNSPEC BEAM	EMULSION/PI- @ 500 #667	WOLTER	EMULSION EXPOSURE
	EMULSION/PI- @ 800 #668	WOLTER	EMULSION EXPOSURE
	PARTICLE SEARCH #692	BUCHTI	1,000 HOURS



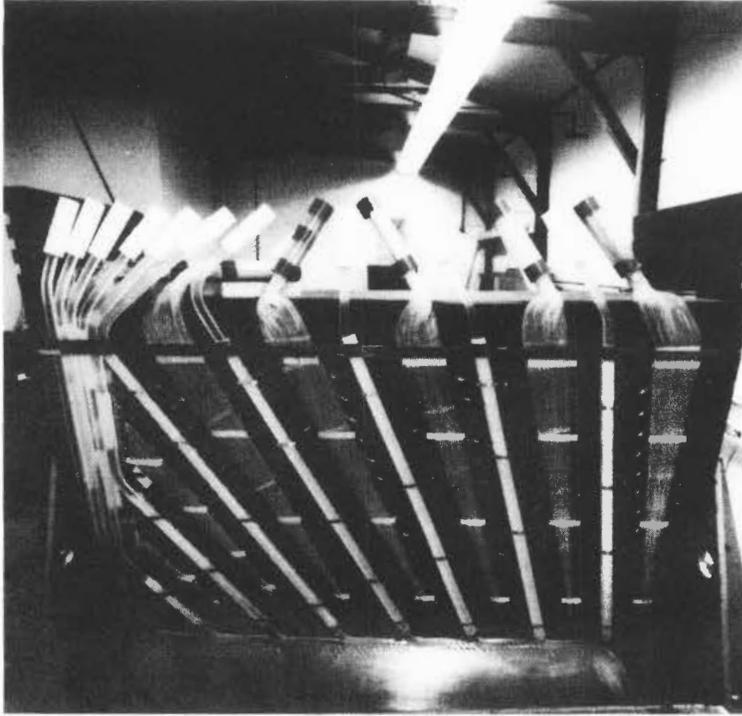
The valve that failed. A collapsed 8-inch Energy Saver bellows.

(Photograph by Fermilab Photo Unit)

SATURDAY MORNING PHYSICS STUDENT FIRST IN NATIONAL CONTEST

Bruce Karsten, Jr., a student at Larkin High School in Elgin, Illinois and a graduate of the Fermilab Saturday Morning Physics course, has won a national academic contest. Mr. Karsten placed first in the United States in physics and tied for first in chemistry in the Junior Engineering Technical Society (JETS). JETS is a national organization to promote interest in technical fields at the high-school level.

Mr. Karsten will attend the University of Illinois this fall.



Collider Detector light pipe assembly.
(Photograph by Fermilab Photo Unit)

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PROPOSALS RECEIVED FROM JUNE 16, 1981
THROUGH MARCH 1982

<u>No.</u>	<u>Title</u>	<u>Spokesperson</u>
702	A Search for Particles with Anomalous Values of M/q and Extremely Short Interaction Lengths (A Revision of P-607)	G. Glass
703	Electron-Proton Collisions at Fermilab	W. R. Frisken
704	Integrated Proposal on First Round Experiments with the Polarized Beam Facility	A. Yokosawa
705	A Study of Charmonium and Direct Photon Production by 300 GeV/c Anti-proton, Proton, π^+ and π^- Beams (P669 Revised Objectives)	B. Cox
706	A Proposal to Measure Direct Photon Production at Tevatron Energies	P. Slattery
707	Measurement of the Electron Asymmetry Parameter in Sigma Minus Beta Decay	P. S. Cooper
708	Electron-Proton Interaction Experiment	W. Lee
709	Proposal for a Forward Detector for the D0 Area	M. J. Longo
710	Measurements of Elastic Scattering and Total Cross Sections at the Fermilab $\bar{p}p$ Collider	R. Rubinstein
711	In preparation	
712	Study of Muons from $\bar{p}p$ Collisions Up to $\sqrt{s} = 2$ TeV	P. Rapp
713	Proposal for a Search for Highly Ionizing Particles for the D0 Area at Fermilab	P. B. Price
714	Large Angle Particle D0 Group	P. Grannis
715	Precision Measurement of the Decay $\Sigma^- \rightarrow ne^- \nu$	P. S. Cooper
716	Proposal for Further Beam Dump Neutrino Running	B. P. Roe
717	A Forward Looking Detector for the D0 Area	J. Lach