FACILITY UTILIZATION SUMMARY -- SEPTEMBER 1976

I. Summary of Accelerator Operations

		Hours	
A. Accelerator use for physics research			
Accelerator physics research		38.6	
High energy physics research		263.6	
Research during other use		(20.1)	
	Subtotal		302.2
B. Other activities			
Accelerator setup and tuning to experimental areas		7.0	
Scheduled interruption		277.3	
Unscheduled interruption		133.5	
	Subtotal		417.8
C. Unmanned time			
	Total		720.0

II. Summaries of High Energy Physics Research Use

	# of Expts.	Hours	Results
A. Counter experiments	15	2560.5	
B. Bubble chamber experiments	1	26.5	29,007 pictures
C. Emulsion experiments			
D. Special target experiments	1	158.0	1 foil irradiation
E. Test experiments			
F. Engineering studies and tests	1	1.1	$\bar{\nu}$ plug tests
G. Other beam use	-	16.8	
	8	2763.8	4 expts. completed

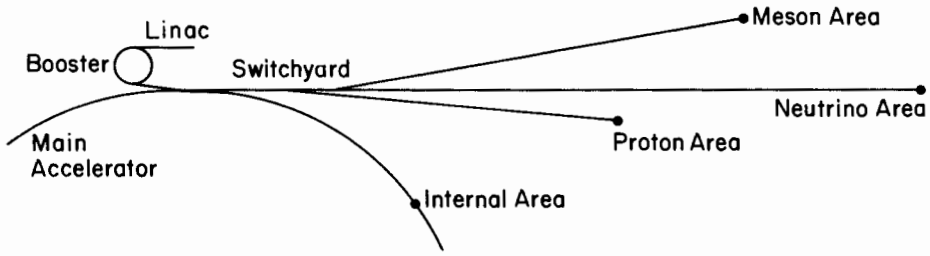
III. Number of Protons Accelerated and Delivered ($\times 10^{18}$)

A. Beam accelerated in Main Ring	@ 400 GeV	0.673		
	@ 200 GeV	0.468		
				1.141
B. Beam delivered to experimental areas				
Meson Area	@ 400 GeV	0.108		
	@ 200 GeV	0.071		
Neutrino Area			0.179	
Slow Spill	@ 400 GeV	0.313		
	@ 200 GeV	0.051		
Fast Spill	@ 400 GeV	0.019		
	@ 200 GeV	0.130		
			0.513	
Proton Area	@ 400 GeV	0.145		
	@ 200 GeV	0.130		
	@ 100 GeV	0.009		
			0.284	
Total				0.976

IV. Beam Utilization by Experiment

	Hours	Results
A. Meson Area		
K^o Regeneration #226/#486	123.9	Setup and tests
n-Elastic Scattering #248	146.4	Data
Hadron Jets #260	207.3	Data; complete
Inclusive Scattering #324	177.2	Data
Hadron Dissociation #396	169.5	Parasitic tests
Particle Search #472	249.9	Data
B. Neutrino Area		
Neutrino #310	89.5	Setup and tests
Muon #319	209.3	Data; complete
30" $\bar{p}$-d @ 100 GeV #345	26.5	29K pictures
Particle Search #379	163.0	Data
C. Proton Area		
Photon Total Cross Section #25A	235.8	Data
Particle Production #284	215.8	Data; complete
Nuclear Fragments #466	158.9	1 foil irradiation
Di-Hadron #494	213.5	Data
D. Internal Target Area		
p-N Scattering #198A	68.5	Data
p-p Polarization #313	46.5	Data
p-p Inelastic #321	244.4	Data; complete
Total	2745.9	

Fermi National Accelerator Laboratory



Experiments in the Research Areas

OCTOBER 1976 - JANUARY 1977

Internal Area	Proton Area	Neutrino Area	Meson Area
PROTON-NUCLEON SCATT. #198A	PROTON EAST: PHOTON CROSS SECTION #25A PARTICLE SEARCH #325	HADRON BEAM: 30-IN. B.C. PARTICLE SEARCH #379	M1 BEAM: POLARIZED SCATTERING #61 INCLUSIVE SCATTERING #324 FORM FACTOR #456
P-P POLARIZATION #313	PROTON CENTER: DI-HADRON #494	NEUTRINO AREA: 15-FT. B.C. NEUTRINO #310	M2 BEAM: INCLUSIVE NEUTRAL MESON #350 PARTICLE PRODUCTION #415 PARTICLE SEARCH #472
PROTON-NUCLEON SCATT. #381	PROTON WEST: P-P ELASTIC #177A	MUON/HADRON BEAM: MUON #398	M3 BEAM: NEUTRON ELASTIC SCATTERING #248
NUCLEAR FRAGMENTS #442			M4 BEAM: K^0 REGENERATION #226 K^0 CROSS SECTION #486
			M6 BEAM: INCLUSIVE SCATTERING #118A BACKWARD SCATTERING #290

SITUATION REPORT - OCTOBER 1976

FERMI NATIONAL ACCELERATOR LABORATORY

A. F. GREENE

1 OCT 1976

EXPERIMENTAL PROGRAM SITUATION REPORT

THE EXPERIMENTAL PROGRAM SITUATION AT FERMILAB IS SUMMARIZED BELOW. THE EXPERIMENTS ARE LISTED SEPARATED BY EXPERIMENTAL AREA UNDER CATEGORIES THAT BEST DESCRIBE THEIR CIRCUMSTANCE AS OF OCTOBER 1, 1976. FOR EXPERIMENTS WHICH HAVE BEEN COMPLETED OR HAVE RECEIVED BEAM THERE IS INDICATION OF THE AMOUNT OF RUNNING TIME OR EXPOSURE. THE EXPERIMENTAL AREA NAMES ARE ABBREVIATED AS FOLLOWS: INTERNAL TARGET AREA (ITA), MESON AREA (MA), NEUTRINO AREA (NA), PROTON AREA (PA).

TOTAL NUMBER OF APPROVED EXPERIMENTS - 260

AREA-BEAM		SPOKESPERSON	EXTENT OF RUN TO DATE	DATE COMPLETED
A. EXPERIMENTS THAT HAVE COMPLETED DATA TAKING (163):				
MA -M1	ELASTIC SCATTERING #7	MEYER	2,350 HOURS	28 JAN 75
	PION DISSOCIATION #86A	LUBATTI	800 HOURS	22 MAR 76
	FORM FACTOR #216	STORK	900 HOURS	1 OCT 75
	DETECTOR DEVELOPMENT #229	YUAN	300 HOURS	16 NOV 74
	DETECTOR DEVELOPMENT #261	WANG	600 HOURS	20 NOV 74
	MUON SEARCH #335	PACKLER	300 HOURS	6 JUN 75
	PARTICLE SEARCH #416	LUBATTI	400 HOURS	1 JUL 75
-M2	NEUTRAL HYPERON #8	PONDROM	2,450 HOURS	22 MAR 76
	MULTIGAMMA #22	COLLINS	350 HOURS	26 JUN 74
	MISSING MASS #51A	VON GOELER	800 HOURS	23 OCT 74
	QUARK #75	YAMANOUCHI	1,050 HOURS	8 SEP 73
	BEAM DUMP #108	AVSCHALOM	350 HOURS	2 JUN 75
	PION CHARGE EXCHANGE #111	TOLLESTRUP	1,800 HOURS	19 SEP 74
	INCLUSIVE PHOTON #268	MELLEMA	1,850 HOURS	11 FEB 76
	PARTICLE SEARCH #357	MEYER	1,700 HOURS	7 JUN 76
	PARTICLE SEARCH #365	GARELICK	200 HOURS	5 FEB 75
-M3	NEUTRON CROSS SECTION #4	LONGO	1,450 HOURS	20 MAR 74
	NEUTRON BACKWARD SCATTERING #12	REAY	1,300 HOURS	2 DEC 74
	NEUTRON DISSOCIATION #27A	ROSEN	850 HOURS	24 APR 74
	MULTIGAMMA #230	LONGO	50 HOURS	24 APR 74
	NEUTRON DISSOCIATION #305	GOBBI	1,400 HOURS	14 APR 75
	PARTICLE SEARCH #366	ABOLINS	2,500 HOURS	2 JUL 76
	PARTICLE SEARCH #397	ROSEN	1,150 HOURS	18 AUG 76
-M4	QUARK #72	LEIPUNER	500 HOURS	11 JUN 73
	K ZERO REGENERATION #82	TELEGDI	3,500 HOURS	5 JUL 75
	PARTICLE SEARCH #330	GUSTAFSON	150 HOURS	7 JUL 75
	K ZERO REGENERATION #425	TELEGDI	1,400 HOURS	17 MAY 76
-M6	ELASTIC SCATTERING #69A	LACH	2,800 HOURS	3 MAR 76
	ELASTIC SCATTERING #96	RITSON	2,550 HOURS	17 FEB 75
	MULTIPLICITIES #178	BUSZA	800 HOURS	14 AUG 75
	HADRON JETS #260	MCLEOD	2,300 HOURS	20 SEP 76
-OTHER	EMULSION/PROTONS @ 200 #90	WOLTER	4 STACKS	20 SEP 72
	EMULSION/PROTONS @ 200 #103	KING	1 STACK	20 SEP 72
	EMULSION/PROTONS @ 200 #105	MALHOTRA	1 STACK	20 SEP 72
	EMULSION/PROTONS @ 200 #114	JAIN	1 STACK	20 SEP 72
	EMULSION/PROTONS @ 200 #116	HEBERT	5 STACKS	20 SEP 72
	EMULSION/PROTONS @ 200 #117A	KUSUMOTO	11 STACKS	20 SEP 72
	EMULSION/PROTONS @ 200 #156	NTU	13 STACKS	20 SEP 72
	EMULSION/PROTONS @ 200 #171	LORD	6 STACKS	20 SEP 72
	EMULSION/PROTONS @ 200 #183	TRETJAKOVA	3 STACKS	20 SEP 72
	EMULSION/PROTONS @ 200 #189	RITSON	2 PLATES	20 SEP 72
	SUPER-HEAVY ELEMENTS #147	DEBEAUVAIS	4 EXPOSURES	11 JUN 75
	DI-MUON #337	BARTLY	5 HOURS	7 FEB 75
	SUPER-HEAVY ELEMENTS #371	JORIC	2 STACKS	20 DEC 75
	FRAGMENTATION PARTICLES #426	FUKUI	16 STACKS	20 MAR 76
NA -NEUTRINO	NEUTRINO #1A	CLINE	2,850 HOURS	30 JUN 75
	15-FOOT NEUTRINO/H2GWE #28A	FRY	97K PIX	11 JUN 75
	NEUTRINO #21A	BARISH	2,450 HOURS	2 NOV 75
	15-FOOT EMI TEST #155	PETERSON	14K PIX	30 NOV 74
	15-FOOT ANTI-NEUTRINO/H2GNE#172	BINGHAM	49K PIX	25 MAY 76
	15-FOOT ANTI-NEUTRINO/H2GNE#180	ERMOLOV	76K PIX	2 JUN 75
	PARTICLE SEARCH #247	BURNOP	350 HOURS	18 MAY 76
	NEUTRINO #254	KALBFLEISCH	550 HOURS	15 OCT 75
	NEUTRINO #262	BARISH	400 HOURS	20 MAR 74
	NEUTRINO #320	SCIULLI	500 HOURS	1 OCT 74
	NEUTRINO #370	CLINE	400 HOURS	19 MAR 75
-MUON/HADRON	MUON #26	HAND	900 HOURS	16 APR 74
	MUON #98	ANDERSON	1,800 HOURS	17 FEB 75
	MUON #319	CHEN	900 HOURS	20 SEP 76
	DI-MUON #331	PILCHER	1,400 HOURS	22 MAR 76
	PARTICLE SEARCH #382	HAND	200 HOURS	19 DEC 75
-15-FT	15-FOOT ENGINEERING RUN #234	HUSON	57K PIX	5 NOV 74
	15-FOOT P - P @ 400 #341	KO	34K PIX	21 DEC 75
	15-FOOT P - P @ 300 #343	ENGELMANN	27K PIX	13 JAN 76
-30-IN	30-INCH HYBRID #28	SMITH	479K PIX	22 APR 74
	30-INCH P-P @ 300 #37A	MALAMUD	51K PIX	1 JUN 73
	30-INCH PI+ & P - P @ 100 #121A	LANDER	104K PIX	23 JAN 74
	30-INCH PI- - P @ 100 #125	MORRISON	53K PIX	28 AUG 73
	30-INCH PI- - P @ 200 #137	HUSON	48K PIX	10 MAR 73
	30-INCH P-P @ 400 #138	VANDER VELDE	52K PIX	26 AUG 75
	30-INCH P-P @ 200 #141A	FIELDS	67K PIX	27 NOV 72
	30-INCH PI- - P @ 300 #143A	KALBFLEISCH	51K PIX	10 APR 74
	30-INCH HYBRID #154	PLESS	105K PIX	13 MAR 74
	30-INCH P - P&NE @ 300 #161	HAPP	51K PIX	25 JUN 74
	30-INCH PI- - P&NE @ 200 #163A	WALKER	52K PIX	18 JUN 74
	30-INCH P - D @ 100 #194	MURPHY	92K PIX	20 AUG 76
	30-INCH P - D @ 400 #196	ENGELMANN	109K PIX	29 OCT 75
	30-INCH P - D @ 300 #209	DAO	106K PIX	7 OCT 75
	30-INCH PI+ & P - P @ 200 #217	LANDER	85K PIX	15 MAY 74
	30-INCH PI- - D @ 200 #218	YAGER	72K PIX	18 SEP 74
	30-INCH PI+ & P - P @ 60 #228	FERBEL	37K PIX	15 APR 74
	30-INCH P-P @ 100 #252	FERBEL	33K PIX	6 DEC 72
	30-INCH P - D @ 200 #280	FIELDS	103K PIX	11 OCT 75
	30-INCH HYBRID #281	SMITH	301K PIX	28 SEP 75
	30-INCH PI+ & P - D @ 200 #295	YEKUTIELI	156K PIX	2 NOV 75
	30-INCH PBAR - P @ 100 #311	NEALE	99K PIX	27 JAN 75
	30-INCH PI- - D @ 360 #338	MORITASU	53K PIX	28 AUG 76
-OTHER	MONOPOLE #3	EBERHARD	4 TARGETS EXPOSED	4 SEP 74
	PROTON-PROTON INELASTIC #14A	FRANZINI	140 HOURS	21 JUN 73
	MONOPOLE #76	CARRIGAN	5 TARGETS EXPOSED	1 DEC 74
	LONG-LIVED PARTICLES #115	STEVENSON	6 HOURS	23 NOV 74
	SUPER-HEAVY ELEMENTS #142	STOUGHTON	1 TARGET	4 JUN 75
	MASSIVE PARTICLE SEARCH #199	FRANKEL	2 TARGETS EXPOSED	22 AUG 73
	BEAM DUMP #211	GOEBEL	2 HOURS	14 NOV 73
	LONG-LIVED PARTICLES #239	FRATI	350 HOURS	3 FEB 74
	QUARK #276	VAN GINNEKIN	3 TARGETS EXPOSED	2 NOV 75
	SUPER-HEAVY ELEMENTS #285	LEDERMAN	3 TARGET EXPOSURES	2 AUG 76
	DETECTOR DEVELOPMENT #34	HUGGETT	50 HOURS	26 JUN 74
	QUARK #297	LEIPUNER	50 HOURS	10 JUL 74
	DETECTOR DEVELOPMENT #327	ALLISON	50 HOURS	7 FEB 75
	PLASTIC DETECTORS #275	ENGE	4 STACKS	20 OCT 73
	EMULSION/PROTONS @ 300 #181	CART	3 STACKS	20 OCT 73

PAGE 2 EXPERIMENTAL PROGRAM SITUATION REPORT (CONT'D)

AREA-BEAM		SPOKESPERSON	EXTENT OF RUN TO DATE	DATE COMPLETED
	EMULSION/PROTONS @ 300 #195	LIM	3 STACKS	10 JUN 75
	EMULSION/PROTONS @ 300 #232	KING	2 STACKS	20 OCT 73
	EMULSION/PROTONS @ 300 #233	HEBERT	8 STACKS	20 OCT 73
	EMULSION/PROTONS @ 300 #237	LORD	5 STACKS	10 JUN 75
	EMULSION/PROTONS @ 300 #242	NIU	2 STACKS	20 OCT 73
	EMULSION/PROTONS @ 300 #244	JAIN	1 STACK	20 OCT 73
	EMULSION/PROTONS @ 300 #250	KUSUMOTO	1 STACK	20 OCT 73
	EMULSION/PROTONS @ 300 #329	TRETJAKOVA	2 STACKS	10 JUN 75
	EMULSION/PROTONS @ 300 #374	DAVIS	1 STACK	10 JUN 75
	EMULSION/PROTONS @ 300 #419	GIACOMELLI	1 STACK	10 JUN 75
	EMULSION/PROTONS @ 300 #421	DZHELEPOV	1 STACK	24 JUN 75
	EMULSION/PROTONS @ 200 #271	GOTTFRIED	10 STACKS	10 JUN 75
	EMULSION/MUONS @ 150 #255	JAIN	1 STACK	16 OCT 73
	EMULSION/MUONS @ 150 #205A	KUSUMOTO	2 STACKS	16 OCT 73
	EMULSION/PI- @ 200 #264	YOUNG	2 STACKS	7 OCT 74
	EMULSION/PI- @ 200 #328	TRETJAKOVA	5 STACKS	7 OCT 74
	EMULSION/PI- @ 200 #339	WOLTER	4 STACKS	9 JUN 75
	EMULSION/PI- @ 200 #362	JAIN	1 STACK	9 JUN 75
	EMULSION/PI- @ 200 #387	WILKES	4 STACKS	9 JUN 75
	EMULSION/PROTONS @ 400 #238	LORD	9 STACKS	9 DEC 75
	EMULSION/PROTONS @ 400 #243	NIU	7 STACKS	9 DEC 75
	EMULSION/PROTONS @ 400 #245	JAIN	1 STACK	9 DEC 75
	EMULSION/PROTONS @ 400 #249	WOLTER	3 STACKS	9 DEC 75
	EMULSION/PROTONS @ 400 #251	KUSUMOTO	3 STACKS	9 DEC 75
	EMULSION/PROTONS @ 400 #265	YOUNG	3 STACKS	9 DEC 75
	EMULSION/PROTONS @ 400 #279	KING	3 STACKS	9 DEC 75
	EMULSION/PROTONS @ 400 #292	GOTTFRIED	12 STACKS	9 DEC 75
	EMULSION/PROTONS @ 400 #336	OGATA	2 STACKS	9 DEC 75
	EMULSION/PROTONS @ 400 #346	EKSPONG	1 STACK	9 DEC 75
	EMULSION/PROTONS @ 400 #385	PRAKASH	1 STACK	9 DEC 75
	EMULSION/PROTONS @ 400 #423	SUGIMOTO	4 STACKS	9 DEC 75
	EMULSION/PROTONS @ 400 #428	HEBERT	14 STACKS	9 DEC 75
	EMULSION/PROTONS @ 400 #434	DAKE	3 STACKS	9 DEC 75
	EMULSION/PROTONS @ 400 #461	LORD	6 STACKS	9 DEC 75
	EMULSION/PROTONS @ 400 #462	GIACOMELLI	1 STACK	9 DEC 75
	EMULSION/PROTONS @ 400 #463	TRETJAKOVA	2 STACKS	9 DEC 75
	TACHYON MONOPOLE #202	BARTLETT	COSMIC RAY RUNNING	19 MAY 76
PA -PE	PHOTOPRODUCTION #87A	LEE	2,500 HOURS	21 DEC 75
	PARTICLE SEARCH #100A	PIRONE	1,150 HOURS	4 APR 74
	PARTICLE SEARCH #300	CRONIN	750 HOURS	24 APR 76
	DI-MUON #358	LEE	400 HOURS	1 OCT 75
	DETECTOR DEVELOPMENT #498	GRUHN	50 HOURS	18 AUG 76
-PC	MUON SEARCH #48	ADAIR	500 HOURS	1 DEC 75
	LEPTON #70	LEDERMAN	2,800 HOURS	1 DEC 74
	PARTICLE SEARCH #187	LEDERMAN	200 HOURS	6 NOV 73
	MUON SEARCH #435	ADAIR	250 HOURS	2 JUL 76
	DI-MUON #436	ADAIR	200 HOURS	29 OCT 75
-PW	PHOTON SEARCH #95A	COX	1,850 HOURS	12 JUL 76
	PARTICLE PRODUCTION #284	WALKER	1,150 HOURS	20 SEP 76
ITA-C-0	PROTON-PROTON SCATTERING #36A	COOL	700 HOURS	24 JUN 73
	PHOTON SEARCH #63A	WALKER	2,600 HOURS	13 MAR 75
	PROTON-PROTON MISSING MASS #67A	SANNES	600 HOURS	8 AUG 73
	PHOTON SEARCH #120	CLINE	1,200 HOURS	29 MAY 73
	PARTICLE SEARCH #184	WANDERER	800 HOURS	29 MAY 74
	PROTON-DEUTERON SCATTERING #186	MELISSINOS	450 HOURS	19 AUG 74
	PROTON-NUCLEON INCLUSIVE #188	SANNES	1,050 HOURS	9 MAY 73
	PROTON-PROTON INELASTIC #221	FRANZINI	950 HOURS	5 SEP 74
	PROTON-NUCLEON INELASTIC #317	COOL	1,400 HOURS	1 NOV 75
	PROTON-PROTON INELASTIC #321	LEE-FRANZINI	1,900 HOURS	20 SEP 76
	PARTICLE SEARCH #363	OLSEN	650 HOURS	9 APR 75
	PARTICLE PRODUCTION #418	SANNES	900 HOURS	22 OCT 75

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B. EXPERIMENTS THAT ARE IN PROGRESS (28):			EXTENT OF RUN TO DATE	DATE OF RECENT RUN
MA -M1	TOTAL CROSS SECTION #104	KYCIA	1,400 HOURS	1 JAN 75
	INCLUSIVE SCATTERING #324	WEISBERG	600 HOURS	1 OCT 76
	HADRON JETS #236A	HOCKETT	1,290 HOURS	1 OCT 76
	POLARIZED SCATTERING #61	CHAMBERLAIN	700 HOURS	1 JUL 76
-M2	INCLUSIVE NEUTRAL MESON #350	KENNEY	400 HOURS	1 OCT 76
	PARTICLE SEARCH #472	STAMFIELD	550 HOURS	1 OCT 76
-M3	NEUTRON ELASTIC SCATTERING #248	LONGO	1,450 HOURS	1 OCT 76
-M6	INCLUSIVE SCATTERING #118A	FRIEDMAN	1,200 HOURS	1 JUL 76
-OTHER	NUCLEAR CHEMISTRY #81A	KAUFMAN	143 BOMBARDMENTS	1 OCT 76
NA -NEUTRINO	15-FOOT NEUTRINO/H2 #45A	ROE	162K PIX	1 APR 76
	15-FOOT ANTI-NEUTRINO/H2 #31A	DERRICK	64K PIX	1 APR 76
	15-FOOT NEUTRINO/H2 & NE #53A	BALTAY	64K PIX	1 JUL 76
-MUON/HADRON	TEST MUON IRRADIATION #467	FREEDMAN	2 TARGET EXPOSURES	1 OCT 76
-15-FT	15-FOOT PI- - P @ 100 #83A	KITAGAKI	11K PIX	1 APR 75
	15-FOOT PI- - P&NE @ 200 #89	FRETTER	4K PIX	1 JUL 75
	15-FOOT PI- - P @ 360 #384	HUSON	20K PIX	1 APR 76
-30-IN	30-INCH HYBRID #299	PLESS	158K PIX	1 APR 75
	30-INCH PBAR - D @ 100 #345	EKSPONG	61K PIX	1 OCT 76
PA -PE	PHOTON TOTAL CROSS SECTION #25A	CALDWELL	1,200 HOURS	1 OCT 76
	PARTICLE SEARCH #325	CRONIN	700 HOURS	1 JUL 76
	NUCLEAR FRAGMENTS #466	KAUFMAN	2 TARGETS EXPOSED	1 OCT 76
-PC	DI-LEPTON #288	LEDERMAN	2,900 HOURS	1 OCT 76
	DI-HADRON #494	GOOD	550 HOURS	1 OCT 76
-PW	PROTON-PROTON ELASTIC #177A	OREAR	750 HOURS	1 APR 76
ITA-C-0	PROTON-NUCLEON SCATTERING #198A	OLSEN	1,400 HOURS	1 OCT 76
	PROTON-PROTON POLARIZATION #313	NEAL	1,150 HOURS	1 OCT 76
	PROTON-NUCLEON SCATTERING #381	MALAMUD	50 HOURS	1 OCT 76
	NUCLEAR FRAGMENTS #442	TUBKOT	100 HOURS	1 OCT 76

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C. EXPERIMENTS THAT ARE IN TEST STAGE (9):				
MA -M1	FORM FACTOR #456	STORK	150 HOURS	1 OCT 76
-M2	PARTICLE PRODUCTION #415	PONDROM	5 HOURS	1 OCT 76
-M4	K ZERO REGENERATION #226	TELEGDI	400 HOURS	1 OCT 76
	K ZERO CROSS SECTION #486	WINSTEIN		1 OCT 76
-M6	HADRON DISSOCIATION #396	GOULIANOS	300 HOURS	1 OCT 76
	MULTIPARTICLE #110A	MCLEOD	50 HOURS	1 OCT 76
NA -NEUTRINO	NEUTRINO #310	CLINE	550 HOURS	1 OCT 76
-MUON/HADRON	MUON #398	WILSON	300 HOURS	1 OCT 76
-15-FT	PARTICLE SEARCH #379	WOJCICKI	300 HOURS	1 OCT 76

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PAGE 3 EXPERIMENTAL PROGRAM SITUATION REPORT (CONT'D)

D. EXPERIMENTS BEING INSTALLED (2):

		SPOKESPERSON	EXTENT OF APPROVAL
MA -M6	BACKWARD SCATTERING #290	BAKER	900 HOURS
NA -NEUTRINO	NEUTRINO #482	BARISH	PARASITIC RUNNING

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E. EXPERIMENTS TO BE SET UP WITHIN A YEAR (29):

MA -M1	PARTICLE SEARCH #354	BAKER	PARASITIC RUNNING
	HADRON DISSOCIATION #272	FERBEL	600 HOURS
-M2	LAMBDA MAGNETIC MOMENT #440	BUNCE	160 HOURS
	HADRON JETS #395	SELOVE	450 HOURS
	LAMBDA POLARIZATION #441	POMDROM	150 HOURS
	INCLUSIVE NEUTRON #404	JONES	PARASITIC RUNNING
	PARTICLE SEARCH #439	GARELICK	400 HOURS
	MUON SEARCH #453	FRISCH	600 HOURS
-M3	NEUTRON-NUCLEUS INELASTIC #438	JONES	200 HOURS
-M4	INCLUSIVE K-SHORT #383	KOBRAK	500 HOURS
-M6	ASSOCIATED PRODUCTION #99	DIEBOLD	500 HOURS
	PARTICLE SEARCH #490	SANDWEISS	TEST RUNNING
NA -NEUTRINO	NEUTRINO #253	MO	PARASITIC RUNNING
-MUON/HADRON	EMULSION/MUONS @ 50-100 #373	JAIN	EMULSION EXPOSURE
	EMULSION/MUONS @ 200 #424	WADA	EMULSION EXPOSURE
	EMULSION/MUONS @ 200 #509	SHIRAI	EMULSION EXPOSURE
	PARTICLE SEARCH #369	KIRK	600 HOURS
	DI-MUON #444	SMITH	400 HOURS
	MUON #203A	KERTH	500 HOURS
	MUON #391	KERTH	250 HOURS
-30-IN	30-INCH PBAR - P @ 50 #344	GUTAY	100K PIX
-OTHER	MONOPOLE #502	BARTLETT	COSMIC RAY RUNNING
PA -PE	EMULSION/ELECTRONS @ HI E #340	DAKE	EMULSION EXPOSURE
	EMULSION/ELECTRONS @ >100 #399	GOLDEN	5 STACKS
	EMULSION/ELECTRONS @ HI E #510	MIO	EMULSION EXPOSURE
	PHOTOPRODUCTION #152B	HEUSCH	350 HOURS
	PHOTOPRODUCTION #401	GORMLEY	300 HOURS
	PHOTOPRODUCTION #458	LEE	300 HOURS
ITA-C-O	PROTON-HELIUM SCATTERING #289	MALAMUD	700 HOURS

NOTES: THE ABILITY TO SET UP THESE EXPERIMENTS DURING THE NEXT YEAR IS CONTINGENT ON THE AVAILABILITY OF FUNDS.

DURING 1977 IT IS PLANNED FOR 30-INCH BUBBLE CHAMBER EXPOSURES TO TOTAL AT LEAST 500K PICTURES.

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F. OTHER APPROVED EXPERIMENTS (29):

MA -M2	PARTICLE SEARCH #411	GARELICK	250 HOURS
	PARTICLE SEARCH #413	GARELICK	150 HOURS
-M6	INCLUSIVE SCATTERING #451	BARTON	400 HOURS
	FORM FACTOR #446	AMKENBRANDT	500 HOURS
NA -NEUTRINO	15-FOOT NEUTRINO/D2 #151A	SNOW	100K PIX
	15-FOOT NEUTRINO/D2 #227	ENGELMANN	100K PIX
	15-FOOT ANTI-NEUTRINO/D2 #390	GARFINKEL	300K PIX
	NEUTRINO #356	BARISH	1,000 HOURS
	15-FOOT NEUTRINO/H2 & NE #380	BALTAY	200K PIX
	15-FOOT ANTI-NEUTRINO/H2&NE#383	STEVENSON	200K PIX
-15-FT	15-FOOT P - P & NE @ 400 #291	MANN	25K PIX
-30-IN	30-INCH PI+ & P - P @ 300 #277	BARNES	300K PIX
	30-INCH PBAR - P @ 200 #392	WEALE	100K PIX
	30-INCH PI- - P @ 150 #393	PLESS	400K PIX
	30-INCH PI- - HI Z @ 300 #304	WALKER	200K PIX
	30-INCH P - P @ 500 #207	ENGELMANN	50K PIX
-OTHER	EMULSION/NEW PARTICLES #386	LORD	EMULSION EXPOSURE
	DETECTOR DEVELOPMENT #206	YODH	200 HOURS
	EMULSION/PI- @ 200 #481	TAKAHASHI	EMULSION EXPOSURE
	EMULSION/PI- @ > OR = 200 #503	OGATA	EMULSION EXPOSURE
	EMULSION/PI- @ > OR = 200 #506	DAKE	EMULSION EXPOSURE
	EMULSION/PROTONS @ 400-500 #499	IWAI	EMULSION EXPOSURE
	EMULSION/PROTONS @ 500 #508	WOLTER	EMULSION EXPOSURE
PA -PE	PARTICLE SEARCH #400	PEOPLES	400 HOURS
	PHI PHOTOPRODUCTION #263	CHEN	600 HOURS
-PC	CHARGED HYPERON #497	LACH	400 HOURS
-PY	PION INCLUSIVE #258	PIRONE	800 HOURS
	C-TEST #302	CESTER-REGGE	400 HOURS
	MULTIGAMMA #192	GUIRAGOSSIAN	400 HOURS

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G. PENDING PROPOSALS (43):

			EXTENT OF REQUEST
MA -M1	DETECTOR DEVELOPMENT #427	YUAN	200 HOURS
	HIGH ENERGY CHANNELING #507	GIBSON	250 HOURS
	CHARGED HYPERON #512	SHEPARD	800 HOURS
	PARTICLE STUDY #515	ROSEN	1,000 HOURS
-M2	LAMBDA BETA DECAY #361	POMDROM	300 HOURS
	PARTICLE SEARCH #477	WEINSTEIN	500 HOURS
	LAMBDA-BAR PRODUCTION #495	HELLER	400 HOURS
	PROTON POLARIZATION #505	YAMIN	100 HOURS
-M3	K STAR PRODUCTION #443	ABOLINS	600 HOURS
	NEUTRON-DEUTERON ELASTIC #479	ROBERTS	300 HOURS
-M6	HADRON DISSOCIATION #312	EDELSTEIN	1,000 HOURS
	PARTICLE SEARCH #469	CUTTS	150 HOURS
	INCLUSIVE SCATTERING #513	BRANDENBERG	350 HOURS
NA -NEUTRINO	NEUTRINO #355	BARISH	1,400 HOURS
	15-FOOT NEUTRINO/H2 & NE #389	TENNER	100K PIX
	15-FOOT NEUTRINO/H2 & NE #455	PETERSON	200K PIX
	NEUTRINO #496	CHEN	1,000 HOURS
	NEUTRINO #517	READ	2,000 HOURS
-MUON/HADRON	PION DISSOCIATION #318	ASCOLI	400 HOURS
	MUON #348	WILSON	400 HOURS
	DI-MUON #443	PILCHER	400 HOURS
	MUON #448	WILSON	300 HOURS
	TEST PARTICLE SEARCH #457	BRANDENBURG	100 HOURS
	MUON #487	SESSOMS	800 HOURS
	TEST MUON IRRADIATION #501	LANDE	25 HOURS
-15-FT	15-FOOT P - P @ > OR = 300 #208	TARIBAEV	75K PIX
-30-IN	30-INCH K+ - P @ 150 #375	RUBIN	400K PIX
	30-INCH PBAR - P @ 100 #394	WHITMORE	2,000K PIX
	30-INCH HYBRID #488	PLESS	2,500K PIX
	30-INCH PIGP - P&NE @ 100 #504	GULJAMOV	30K PIX
	30-INCH PBAR - D @ 200 #511	FRIDMAN	150K PIX
PA -PE	PHOTOPRODUCTION #450	CALDWELL	600 HOURS
	PHOTOPRODUCTION #516	NASH	1,000 HOURS
-PC	CHARGED HYPERON #353	ECKLUND	600 HOURS

PAGE 4 EXPERIMENTAL PROGRAM SITUATION REPORT (CONT'D)

AREA-BEAM		SPOKESPERSON	EXTENT OF REQUEST
-PW	HADRON JETS #246	SELOVE	600 HOURS
	ELASTIC SCATTERING #301	GETTNER	1,000 HOURS
	DI-MUON #326	PIRONE	400 HOURS
	ELASTIC SCATTERING #347	WALKER	1,200 HOURS
	HADRON-NUCLEON SCATTERING #420	GUIRAGOSSIAN	1,100 HOURS
	ELECTROPRODUCTION #454	GUIRAGOSSIAN	1,500 HOURS
	PROTON-PROTON ELASTIC #514	WALKER	600 HOURS
	ELECTRON PRODUCTION #518	TAYLOR	500 HOURS
ITA-C-0	PROTON-PROTON SCATTERING #500D	FRANZINI	1,000 HOURS