" 89~91 3 가 2 5000 91 가가 90 96 6 가 ·가 · LPG Olefin BTX , 가 가 가 Up Down NCC(Naphtha Cracking Center) Complex 1968 3 , 10 (76 5) NCC가 , 가 4 7 2000 (가 , NCC LDPE(5), VCM(6), AN(5 2000), PP(3), (8 4000), (1 3000), SBR(2 5000), 9 가 , 76 11 35 LDPE(10),), EDC(28 6000), HDPE(7), PP(8), EG(8), (5), BR(2 VCM (15 (21), 가 (23) 3 5000), 80 1 4870 TPA · SM · P-Xylene · Phenol · Aceton · Octhanol · ABS 2~3 73 80 1,2 가 , 83 가 가 Full가 Complex가 가 2

< :

, 78 5000 .< 1 >

Complex 2 5000 (1 3000 · 1 2000)

< 1> 91		
\ 12 01		.)

35, 17.5, 13	91.10	12,000
SM 10, EG 10, 5.7, LDPE 10		
LLDPE 6, HDPE 10, PP 17		
40, 18, 6	91 6	13,000
14, SM 20, EO/G 8, HDPE 12		
LDPE 10, PP 18, EVA 3		
38.5, 19.4, 4.7	91.7	5,000
RPG 22		
PO 10, SM 22	91.3	3,000
CA 13.4, EDC 12.1, VCM 15.1	91.7	1,200
MIBK 1.2, B-A 2.5, Epoxy Resin 8.5	91.12	920
PA 1, ABS 1.3	91.9	400

< 2>

(:1000 /)

					`	,
1964	35	-	-	-	-	35
1966	35	-	-	-	5	40
1967	55	-	-	-	5	60
1968	115	-	-	-	5	120
1969	115	60	-	-	5	180
1970	115	100	-	-	5	220
1971	115	100	50	-	5	270
1972	175	160	60	-	5	400
1973	215	160	60	-	5	440
1974	280	230	60	-	10	580
1978	280	230	60	60	10	640
1980	280	380	60	60	10	790
1989	280	380	60	60	60	840
1991	375	380	100	160	60	1,075
1992	*(430)	380	160	160	60	1,190

() * 5 5000B/D .

Up-Down Stream

```
< 1>
                          ( : / )
30
                              27,490
25
                                                         가
20
              19,298
                                            가
                               16,146
15
                                       가
10
              12,529
                          10,014
                                     ( )가
91.4%
 5
     6,543
               3,252
                                                      가
      1987
            1988
                  1989
                        1990
                              1991
                                      88
                                     40 ), ( 25 ·
HDPE 12 ), (PP 16 5000
), (PS 7 5000 ), (PS 7 5000 )
                      (PS 11 5000 · ABS 3 ), SKI(TPA · DMT 26 ),
                 가
89 88 61.5%
                           가 1 9298
                                                          NCC
                                             35
            90
                                                  ),
35 ), (
                         NCC
                                      가
                 25 )
                                                           가
2
                  , HDPE(
                                5 · 12
                                                       12
  4 ), LDPE( 10 ·
                          8 · 8 ), PP( 10
                                                         4 5000
                                         Complex
 ,
90
90 91
                   가
2~3
                                             2
                                                     2 8000
35
     TPA(
                                         가 90
                   20 .
                                 15 )
                                  가
             90
                      가 6
                                                        15
     10
가
    200%
92
               , Revamping
```

가

(:)

			가
Ethylene	350,000		80
,	155,000		72
Propylene	293,000		72
	335,000		80
Benzene	266,000		70
Toluene	360,000		70
M-Xylene	79,000		80
	372,000		70
O-Xylene	60,000		80
P-Xylene	160,000		80
Butadiene	105,000		80
	97,000		73
C ₄	226,000		80
SM	110,000		78
EDC	286,000		80
VCM	150,000		80
	(60,000)	()	(72)
PVC	290,000		77
LDPE	60,000		72
	(170,000)	()	(80)
HDPE	180,000		80
PP	350,000		72
	190,000		80
PS	250,000		73
	157,000		81
ABS	170,000		78
	60,000		73
TPA	600,000		80
EO	72,000		80
EG	80,000		80
SBR-Latex	20,000		83
AN	52,000		72
Z-Ethyl Hexanol	100,000		82
Butanol	31,000		82
MA	17,000		76
PA	100,000		72
TDI	20,000		81
Cyclohexane	140,000		74
Carprolactam	80,000		74
Alkyl Benzene	160,000		73
Phenol	30,000		80
Acetone	18,000		80
Ethanol	30,000		74
Acetaldehyde	24,000		74

(: /)

	1		1	ı	(. /)
MTBE			30,000	92	
			30,000	95	
			30,000	95	
			00,000		
					<i>II</i>
RD			1,700(2,200)	92	Debottlenecking
()					
SrCO ₃					Up-Grade
()					·
,			3,000	92.4/4	70
				32.4/4	70
r-Fe ₂ O₃			500/D		
()					
CO-Fe ₂ O ₃					
Ba-Fe ₂ O ₃					<i>"</i>
FeSO ₄ +7H ₂ O					
MDI			40,000		
			10,000		Up-Grade
Canvalantam			70,000	00	op Grado
Caprolactam			70,000	93	
()			(30,000)		
			60,000(25,000)	94	8,350
			50,000(50,000)	94 ~ 96	7,600
UBR			150,000Set	95	700
EVA			10,000		92
PPG			6,000		02
MMA			20,000		
			50,000		"
			50,000		"
			40,000		93
PMMA			36,000		
			20,000		"
Polymer		D C	_5,555		
PVA		5 0	30,000		가
C ₅			10,000		92
PVC			6,000	92. 4/4	1 139
Display Phospher			100		130 (ZNS)
VAE			30,000		1 200
Oxoalcohol			100,000		
			50,000 ~ 100,000		가
POM			10,000	94. 2/4	360
			10,000	34. 2/4	300
EOA					
					"
				93	220 /20
	Betz	Korea	1,100	93	49
		Н А	24,000	92. 4/4	40
			1		

PPS	S K I	3,000		3
Gaseous Oxygen/		165,000		350
Nitrogen				
Alcohol()	AGAPE Chemical	20,000	93. 4/4	
		200,000	94	1,000 (
				3,000/CFC
				30,000)
PC		20,000	93	
	KEP			
EP Rubber	ΕP	40,000	93	가
PET Chip	S K I	30,000	93. 1/4	
가		57,000	93. 2/4	367
		50,000	"	
VAM		150,000		2
PTFE				
ABS		100,000	95	EP
LDPE		40,000		
HDPE		80,000		500
PP		100,000		/93
PS		30,000		/ 20,000
		150,000		
		30,000		
TPA		200,000		
SBR		40,000		
BR		30,000		
		150,000		
AN-Monomer		90,000		
SBR/BR		30,000		
		30,000		
PP		120,000		
PVC		10,000		
BTX		120,000		
LDPE		100,000		
PS		100,000		
PVC		50,000		
ABS		45,000		

89~91 3 35 (70 12 96

가 90 가 Revamping Debottlenecking 가 .< 3 BTX · ·

500 93 가 2 2 가 가 , Product Batch Item 가 50 가 가 가 가 90 가가 1992/2/15> <