



Subject: Motorola PRODUCT AND PROCESS CHANGE NOTIFICATION 4419

TITLE: MFP14/16/20,LQFP32(7X7) ASSEMBLY AND TEST SITE TRANSFER TO  
MOTOROLA TAIWAN

EFFECTIVE DATE: 15-MAY-99

AFFECTED CHANGE CATEGORIES

Motorola Assembly Site

Motorola Test Site

AFFECTED PRODUCT DIVISIONS

GENERAL PURPOSE PRO WIRELESS RF/IF PERSONAL AND PC MED  
CONS BROADCAST DISPLAYS/MONITORS ADV DIGITAL CONSUME  
CSG MISC COMM, TRANS, ACCESSPOWERTRAIN SYS  
BODY ELEC/STRAT IND

ADDITIONAL RELIABILITY DATA: None

Ref: NPM057

SAMPLES: Contact Below

Ref: NPM087@email.sps.mot.com

Contact your local Motorola Sales Office.

For any questions concerning this notification:

REFERENCE: NOBUYUKI OHTAKE

PHONE: 241-27-2231

DISCLAIMER:

MOTOROLA WILL CONSIDER THIS CHANGE APPROVED UNLESS SPECIFIC  
CONDITIONS OF ACCEPTANCE ARE PROVIDED IN WRITING WITHIN 30 DAYS OF  
RECEIPT OF THIS NOTICE. TO DO SO, CONTACT YOUR LOCAL MOTOROLA SALES  
OFFICE.

GPCN FORMAT: CUSTOMER

DO NOT REPLY TO THIS MESSAGE.

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PRODUCT AND PROCESS CHANGE NOTIFICATION

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ISSUE DATE: 07-Feb-1999

NOTIFICATION #:4419

EFFECTIVE DATE: 15-May-1999

ISSUING DIVISION:NML-S/ISYS

DESCRIPTION AND PURPOSE

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Motorola has decided to consolidate Aizu backend operation into other manufacturing sites, which will enable Aizu to become a center of excellence focused on Analog CMOS and TMOS technologies. The MFP14/16/20 and LQFP32(7X7) assembly and test in Aizu backend covered by this PCN will be transferred to Motorola Electronics Tiwan Ltd in Tiwan which is a QS9000 certified assembly and test site. Regarding to MFP14/16/20, the equipment also will be transferred and the volume production will start by using the same equipment and same material as Aizu's. Regarding to LQFP32(7x7), Motorola electronics Tiwan Ltd. Will assembly and test with existing qualified line.

The changes with this site change are:

- (1) Lead finish : from SnPb plating to NiPdAu PPF
- (2) BOM

- Die attach : from CRM1033MA/Sumitomo to  
CRM1064MA/Sumitomo

- Au wire : from 0.94mil to 1mil
- Mold compound : from CEL9000/Hitach to

MP7100/Nitto

- (3) Trays(MPQ) : from Aizu unique (6x15) to

JEDEC(10x25)

\* The products which are currently tested in Sendai will not be changed the tray.

- (4) Material of T & R from Shinetsu to Advantech

The shutdown timing in Aizu is is as below.

MFP14/16 : 14-Jun-99

MFP20 : 31-May-99

QFP32(7X7): 19-Apr-99

NOTE: All Life Time Buy Notices (end of life) previously issued for this product, remain in effect and will be phased out as stated.

QUALIFICATION PLAN

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The qualification sample using biggest die size at the package has been selected to verify the reliability performance. The following is the reliability and process charactalization plan.

1. Reliability test

The preconditioning for reliability test will be done in Accordance with the JEDEC Moisture sensitivity for each level.

Package type	Device type	S/S	PCT	T/C
MC145411F	MFP14/16	77 X 3	23-Mar-99	23-Mar-99
MC14705F	MFP20	77 X 3	23-Mar-99	23-Mar-99
MMQF2N06VLEL	MFP20	77 X 1	23-Mar-99	23-Mar-99
MC68HC68VBIFB	LQFP32(7x7)	77 X 1	12-Apr-99	12-Apr-99

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PCT test condition : 121 degree C/100%RH/2 atm/96hours.  
Temp. cycle test condition: -65 degree C - +150 degree C/1000cycle

2. Process characterization

The process characterization will be performed in accordance with  
Motorola internal criteria.

RELIABILITY DATA SUMMARY

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The reliability test data of existing products will be aviravble  
upon request.

ELECTRICAL CHARACTERISTIC SUMMARY

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The electrical characteristics report is not applicable because  
there is no change on product design and wafer process.

CHANGED PART IDENTIFICATION

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The part can be identified at marking "X" at 1st digit in the traceability  
code marked on the package or country of origin identifier on package backside.

FILE FORMAT: ASCII TEXT

FONT - Courier  
SIZE - 12 Point  
LINE - 70 characters/line  
PAGE - 55 lines/page  
PAGEBREAK CHARACTER - ^L (Control L)

AFFECTED DEVICE LIST (WITHOUT SPECIALS)

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AM26LS31M	, AM26LS31MR1	, AM26LS32M	, AM26LS32MR1
ENG-CHG-AC273M	, ENG-CHG-F244M	, ENG-CHG-F32M	, ENG-CHG-LS244M
JLC1133FEL	, JLC1146FEL	, JLC1555FL1	, JLC1555FR2
JLC1562BF	, JLC1562BFEL	, JLC1562BFL1	, JLC1562BFL2
JLC34538AF	, MC10H100M	, MC10H100ML1	, MC10H101M
MC10H101MEL	, MC10H101ML1	, MC10H101ML2	, MC10H101MR1
MC10H102M	, MC10H102MEL	, MC10H102ML1	, MC10H102ML2
MC10H102MR1	, MC10H102MR2	, MC10H103M	, MC10H103MEL
MC10H103ML1	, MC10H103ML2	, MC10H104M	, MC10H104MEL
MC10H104ML1	, MC10H104ML2	, MC10H104MR1	, MC10H104MR2
MC10H105M	, MC10H105MEL	, MC10H105ML1	, MC10H105ML2
MC10H105MR1	, MC10H105MR2	, MC10H106M	, MC10H106ML1
MC10H107M	, MC10H107MEL	, MC10H107ML1	, MC10H107MR2
MC10H109M	, MC10H109MEL	, MC10H109ML1	, MC10H109ML2
MC10H113M	, MC10H113MEL	, MC10H113ML1	, MC10H115M
MC10H115MEL	, MC10H115ML1	, MC10H115ML2	, MC10H115MR1
MC10H116M	, MC10H116MEL	, MC10H116ML1	, MC10H116ML2
MC10H116MR1	, MC10H116MR2	, MC10H117M	, MC10H117MEL
MC10H117ML1	, MC10H117ML2	, MC10H121M	, MC10H124M
MC10H124MEL	, MC10H124ML1	, MC10H124ML2	, MC10H124MR1
MC10H125M	, MC10H125MEL	, MC10H125ML1	, MC10H125ML2
MC10H125MR1	, MC10H125MR2	, MC10H131M	, MC10H131MEL
MC10H131ML1	, MC10H131ML2	, MC10H131MR1	, MC10H135M
MC10H158M	, MC10H158MEL	, MC10H158ML1	, MC10H158ML2
MC10H158MR1	, MC10H159M	, MC10H159MEL	, MC10H159ML1
MC10H159ML2	, MC10H160M	, MC10H160ML2	, MC10H161M
MC10H161MEL	, MC10H161ML1	, MC10H161ML2	, MC10H162M
MC10H162ML1	, MC10H162ML2	, MC10H164M	, MC10H164MEL
MC10H164ML2	, MC10H173M	, MC10H173ML1	, MC10H174M
MC10H174MEL	, MC10H174ML1	, MC10H174ML2	, MC10H174MR1
MC10H175M	, MC10H175ML1	, MC10H176M	, MC10H176MEL
MC10H176ML1	, MC10H176ML2	, MC10H176MR1	, MC10H188M
MC10H188MEL	, MC10H188ML1	, MC10H188ML2	, MC10H189M
MC10H189MEL	, MC10H189ML1	, MC10H189ML2	, MC10H209M
MC10H210M	, MC10H210MEL	, MC10H210ML1	, MC10H211M
MC10H211MEL	, MC10H211ML1	, MC10H350M	, MC10H350MEL
MC10H350ML1	, MC10H350MR1	, MC10H351M	, MC10H351MEL
MC10H351ML1	, MC10H351MR1	, MC12100M	, MC12101M
MC12101MR1	, MC12202M	, MC13020M	, MC13020MEL
MC13020ML1	, MC13020ML2	, MC13020MR1	, MC13020MR2
MC13028AM	, MC13028AMEL	, MC13028AML1	, MC13028AML2
MC13028M	, MC13029AM	, MC13029AMEL	, MC13156FB
MC13400AFUEB	, MC14001BF	, MC14001BFEL	, MC14001BFL1
MC14001BFL2	, MC14001BFR1	, MC14001BFR2	, MC14002BF
MC14002BFEL	, MC14006BF	, MC14006BFR1	, MC14007UBF
MC14007UBFEL	, MC14007UBFL1	, MC14007UBFR1	, MC14008BF
MC14011BF	, MC14011BFEL	, MC14011BFL1	, MC14011BFL2
MC14011BFR1	, MC14011BFR2	, MC14012BF	, MC14012BFEL
MC14012BFL1	, MC14013BF	, MC14013BFEL	, MC14013BFL1
MC14013BFL2	, MC14013BFR1	, MC14013BFR2	, MC14014BF
MC14014BFEL	, MC14014BFL1	, MC14014BFL2	, MC14014BFR1
MC14014BFR2	, MC14015BF	, MC14015BFEL	, MC14015BFL1
MC14015BFL2	, MC14015BFR1	, MC14016BF	, MC14016BFEL
MC14016BFL1	, MC14016BFR2	, MC14017BF	, MC14017BFEL
MC14017BFL2	, MC14017BFR1	, MC14017BFR2	, MC14018BF
MC14018BFEL	, MC14018BFL2	, MC14018BFR1	, MC14020BF
MC14020BFEL	, MC14020BFL1	, MC14020BFL2	, MC14020BFR1
MC14020BFR2	, MC14021BF	, MC14021BFEL	, MC14021BFL1

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MC14021BFR1	,	MC14022BF	,	MC14023BF	,	MC14023BFEL
MC14023BFL1	,	MC14023BFL2	,	MC14023BFR1	,	MC14023BFR2
MC14024BF	,	MC14024BFEL	,	MC14024BFL1	,	MC14024BFL2
MC14024BFR1	,	MC14024BFR2	,	MC14025BF	,	MC14025BFEL
MC14025BFL1	,	MC14027BF	,	MC14027BFEL	,	MC14027BFL1
MC14027BFL2	,	MC14027BFR1	,	MC14028BF	,	MC14028BFEL
MC14028BFL1	,	MC14028BFL2	,	MC14029BF	,	MC14029BFEL
MC14040BF	,	MC14040BFEL	,	MC14040BFL1	,	MC14040BFL2
MC14040BFR1	,	MC14040BFR2	,	MC14042BF	,	MC14042BFEL
MC14042BFL2	,	MC14043BF	,	MC14043BFEL	,	MC14043BFL1
MC14043BFR1	,	MC14046BF	,	MC14046BFEL	,	MC14046BFL1
MC14046BFL2	,	MC14046BFR1	,	MC14046BFR2	,	MC14049BF
MC14049BFL1	,	MC14049UBF	,	MC14049UBFEL	,	MC14049UBFL1
MC14049UBFL2	,	MC14049UBFR1	,	MC14050BF	,	MC14050BFEL
MC14050BFL1	,	MC14050BFL2	,	MC14050BFR1	,	MC14050BFR2
MC14051BF	,	MC14051BFEL	,	MC14051BFL1	,	MC14051BFL2
MC14051BFR1	,	MC14051BFR2	,	MC14052BF	,	MC14052BFEL
MC14052BFL1	,	MC14052BFL2	,	MC14052BFR1	,	MC14052BFR2
MC14053BF	,	MC14053BFEL	,	MC14053BFL1	,	MC14053BFL2
MC14053BFR1	,	MC14053BFR2	,	MC14060BF	,	MC14060BFEL
MC14060BFL1	,	MC14060BFR2	,	MC14066BF	,	MC14066BFEL
MC14066BFL1	,	MC14066BFL2	,	MC14066BFR1	,	MC14066BFR2
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MC14069UBFL1	,	MC14069UBFR1	,	MC14069UBFR1	,	MC14069UBFR2
MC14070BF	,	MC14070BFEL	,	MC14070BFL1	,	MC14070BFL2
MC14070BFR1	,	MC14070BFR2	,	MC14071BF	,	MC14071BFEL
MC14071BFL1	,	MC14071BFL2	,	MC14071BFR2	,	MC14072BF
MC14072BFEL	,	MC14072BFL1	,	MC14073BF	,	MC14073BFEL
MC14073BFL1	,	MC14073BFR1	,	MC14075BF	,	MC14075BFEL
MC14075BFL1	,	MC14075BFR1	,	MC14075BFR2	,	MC14077BF
MC14077BFEL	,	MC14078BF	,	MC14078BFEL	,	MC14078BFL1
MC14081BF	,	MC14081BFEL	,	MC14081BFL1	,	MC14081BFL2
MC14081BFR1	,	MC14081BFR2	,	MC14082BF	,	MC14082BFR2
MC14093BF	,	MC14093BFEL	,	MC14093BFL1	,	MC14093BFR1
MC14093BFR2	,	MC14094BF	,	MC14094BFEL	,	MC14094BFL1
MC14094BFL2	,	MC14094BFR1	,	MC14094BFR2	,	MC14099BF
MC14099BFEL	,	MC14099BFL1	,	MC14099BFL2	,	MC141628FUEB
MC141634FU	,	MC14174BF	,	MC14174BFEL	,	MC14175BF
MC14175BFEL	,	MC14175BFL1	,	MC14175BFR2	,	MC144111F
MC14490F	,	MC14490FEL	,	MC14490FL1	,	MC14490FR1
MC14503BF	,	MC14503BFEL	,	MC14503BFL2	,	MC14503BFR1
MC14504BF	,	MC14504BFEL	,	MC14504BFL1	,	MC14504BFR1
MC14504BFR2	,	MC14510BF	,	MC14510BFEL	,	MC14510BFR1
MC14511BF	,	MC14511BFEL	,	MC14511BFR1	,	MC14512BF
MC14512BFEL	,	MC14512BFL1	,	MC145158F2	,	MC145158F2EL
MC145158F2ER	,	MC145158F2L1	,	MC145158F2L2	,	MC145158F2R2
MC145166F	,	MC145166FR2	,	MC14516BF	,	MC14516BFEL
MC14516BFL1	,	MC14516BFR1	,	MC14518BF	,	MC14518BFEL
MC14518BFL1	,	MC14518BFR2	,	MC145190F	,	MC145190FR2
MC145191F	,	MC145191FR2	,	MC145192F	,	MC145192FEL
MC145192FR2	,	MC14519BF	,	MC14519BFR1	,	MC145200F

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MC145200FR2	,	MC145201F	,	MC145201FEL	,	MC145201FR2
MC145202F	,	MC14520BF	,	MC14520BFEL	,	MC14520BFL1
MC14520BFL2	,	MC14520BFR1	,	MC14520BFR2	,	MC14521BF
MC14521BFEL	,	MC14521BFL1	,	MC14521BFR1	,	MC145220F
MC145220FR2	,	MC14526BF	,	MC14526BFL1	,	MC14526BFR1
MC14528BF	,	MC14528BFEL	,	MC14528BFL2	,	MC14528BFR1
MC14532BF	,	MC14532BFEL	,	MC14532BFL1	,	MC14532BFR2
MC14536BF	,	MC14536BFL1	,	MC14536BFL2	,	MC14538BF
MC14538BFEL	,	MC14538BFL1	,	MC14538BFL2	,	MC14538BFR1
MC14538BFR2	,	MC14539BF	,	MC14539BFEL	,	MC14539BFR1
MC145403F	,	MC145403FEL	,	MC145404F	,	MC145404FEL
MC145406F	,	MC145406FEL	,	MC145406FL1	,	MC145406FL2
MC145406FR1	,	MC145406FR2	,	MC145407F	,	MC145407FEL
MC145407FL1	,	MC145407FR1	,	MC145407FR2	,	MC145411F
MC14541BF	,	MC14541BFEL	,	MC14541BFL1	,	MC14541BFL2
MC14541BFR1	,	MC14541BFR2	,	MC14543BF	,	MC14543BFEL
MC14543BFL1	,	MC14551BF	,	MC14551BFL1	,	MC14551BFL2
MC14555BF	,	MC14555BFEL	,	MC14555BFL1	,	MC14556BF
MC14556BFEL	,	MC14556BFR1	,	MC14557BF	,	MC14557BFEL
MC14557BFL1	,	MC14557BFR2	,	MC14566BF	,	MC14566BFR1
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MC14572UBFEL	,	MC145740F	,	MC145740FEL	,	MC14584BF
MC14584BFEL	,	MC14584BFL1	,	MC14584BFL2	,	MC14584BFR1
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MC1489AMR2	,	MC1489M	,	MC1489ML1	,	MC1489MR1
MC1495M	,	MC1496M	,	MC1496ML2	,	MC1496MR1
MC1648M	,	MC1648ML1	,	MC1648ML2	,	MC1658M
MC1658ML1	,	MC33079M	,	MC33079MR1	,	MC33174M
MC33174ML2	,	MC3371M	,	MC3371MEL	,	MC3371ML1
MC3371ML2	,	MC3371MR1	,	MC3372M	,	MC3372MEL
MC3372ML1	,	MC3372ML2	,	MC3372MR1	,	MC3372MR2
MC34050M	,	MC34050MEL	,	MC34050ML1	,	MC34051M
MC34051MEL	,	MC34051ML1	,	MC34051MR1	,	MC34051MR2
MC34184M	,	MC34184MEL	,	MC34184ML2	,	MC3450M
MC3486M	,	MC3487M	,	MC3487ML1	,	MC4044M
MC4044MEL	,	MC44864M	,	MC44864MR2	,	MC44868M
MC44868MR2	,	MC68HC05L20D	,	MC68HC05L20DL1	,	MC68HC05L20DL2
MC68HC05L20DR1	,	MC68HC05L20DR2	,	MC68HC05L21FB	,	MC68HC05P12FA
MC68HC05P6CFB	,	MC68HC05P6MFB	,	MC68HC05P7FB	,	MC68HC05P9FB
MC68HC68VBIFB	,	MC74AC00M	,	MC74AC00MEL	,	MC74AC00ML1
MC74AC00MR1	,	MC74AC02M	,	MC74AC02MEL	,	MC74AC02MR1
MC74AC04M	,	MC74AC04MEL	,	MC74AC04ML1	,	MC74AC04ML2
MC74AC04MR1	,	MC74AC05M	,	MC74AC08M	,	MC74AC08MEL
MC74AC08ML1	,	MC74AC08MR1	,	MC74AC10M	,	MC74AC10MEL
MC74AC11M	,	MC74AC11MEL	,	MC74AC11ML1	,	MC74AC125M
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MC74AC138MEL	,	MC74AC138ML1	,	MC74AC138MR1	,	MC74AC138MR2
MC74AC139M	,	MC74AC139MEL	,	MC74AC139ML1	,	MC74AC14M
MC74AC14MEL	,	MC74AC14ML1	,	MC74AC14MR1	,	MC74AC151M

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MC74AC151ML1	,	MC74AC151MR1	,	MC74AC153M	,	MC74AC157M
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MC74AC161ML1	,	MC74AC161MR2	,	MC74AC162M	,	MC74AC163M
MC74AC163MEL	,	MC74AC163ML1	,	MC74AC163MR1	,	MC74AC174M
MC74AC174MEL	,	MC74AC174ML1	,	MC74AC175M	,	MC74AC175ML1
MC74AC20M	,	MC74AC240M	,	MC74AC240MEL	,	MC74AC240ML1
MC74AC241M	,	MC74AC241MEL	,	MC74AC244M	,	MC74AC244MEL
MC74AC244ML1	,	MC74AC245M	,	MC74AC245MEL	,	MC74AC245ML1
MC74AC245MR1	,	MC74AC257M	,	MC74AC258M	,	MC74AC258ML1
MC74AC259M	,	MC74AC259ML1	,	MC74AC273M	,	MC74AC273MEL
MC74AC273ML1	,	MC74AC32M	,	MC74AC32MEL	,	MC74AC32ML1
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MC74AC573MEL	,	MC74AC573ML1	,	MC74AC574M	,	MC74AC574MEL
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MC74ACT125ML2	,	MC74ACT126M	,	MC74ACT126ML1	,	MC74ACT132M
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MC74ACT139MEL	,	MC74ACT139ML1	,	MC74ACT14M	,	MC74ACT14MEL
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MC74ACT241M	,	MC74ACT244M	,	MC74ACT244MEL	,	MC74ACT244ML1
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MC74ACT245MR1	,	MC74ACT251M	,	MC74ACT253M	,	MC74ACT257M
MC74ACT273M	,	MC74ACT273MEL	,	MC74ACT273ML1	,	MC74ACT273MR2
MC74ACT323M	,	MC74ACT32M	,	MC74ACT32MEL	,	MC74ACT32ML1
MC74ACT32ML2	,	MC74ACT373M	,	MC74ACT373MEL	,	MC74ACT373ML1
MC74ACT373MR2	,	MC74ACT374M	,	MC74ACT374MEL	,	MC74ACT374ML1
MC74ACT377M	,	MC74ACT377ML1	,	MC74ACT521M	,	MC74ACT521MEL
MC74ACT534M	,	MC74ACT540M	,	MC74ACT540MEL	,	MC74ACT540ML1
MC74ACT540MR1	,	MC74ACT541M	,	MC74ACT541MEL	,	MC74ACT541ML1
MC74ACT541MR1	,	MC74ACT541MR2	,	MC74ACT573M	,	MC74ACT573MEL
MC74ACT574M	,	MC74ACT574MEL	,	MC74ACT574ML1	,	MC74ACT574MR1
MC74ACT623M	,	MC74ACT640M	,	MC74ACT640ML1	,	MC74ACT74M

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ISSUING DIVISION:NML-S/ISYS

MC74ACT74MEL	,	MC74ACT74ML1	,	MC74ACT74MR1	,	MC74ACT86M
MC74ACT86ML1	,	MC74F00M	,	MC74F00MEL	,	MC74F00ML1
MC74F00MR1	,	MC74F00MR2	,	MC74F02M	,	MC74F02MEL
MC74F02ML1	,	MC74F02MR1	,	MC74F02MR2	,	MC74F04M
MC74F04MEL	,	MC74F04ML1	,	MC74F04MR1	,	MC74F04MR2
MC74F08M	,	MC74F08MEL	,	MC74F08ML1	,	MC74F08MR1
MC74F109M	,	MC74F109MEL	,	MC74F109ML1	,	MC74F109MR1
MC74F10M	,	MC74F10MEL	,	MC74F10ML1	,	MC74F10MR1
MC74F112M	,	MC74F112MEL	,	MC74F112ML1	,	MC74F112MR1
MC74F11M	,	MC74F11MEL	,	MC74F11ML1	,	MC74F11MR1
MC74F125M	,	MC74F125MEL	,	MC74F125ML1	,	MC74F125ML2
MC74F125MR1	,	MC74F126M	,	MC74F126ML1	,	MC74F138M
MC74F138MEL	,	MC74F138ML1	,	MC74F138MR1	,	MC74F139M
MC74F139MEL	,	MC74F139ML1	,	MC74F139MR1	,	MC74F148M
MC74F148MEL	,	MC74F148ML1	,	MC74F14M	,	MC74F14MEL
MC74F14ML1	,	MC74F14MR1	,	MC74F151M	,	MC74F151MEL
MC74F151ML1	,	MC74F151MR1	,	MC74F153M	,	MC74F153MEL
MC74F153ML1	,	MC74F153MR1	,	MC74F157AM	,	MC74F157AMEL
MC74F157AML1	,	MC74F157AMR1	,	MC74F157AMR2	,	MC74F158AM
MC74F158AMEL	,	MC74F158AML1	,	MC74F158AMR1	,	MC74F161AM
MC74F161AMEL	,	MC74F161AML1	,	MC74F161AMR1	,	MC74F163AM
MC74F163AMEL	,	MC74F163AML1	,	MC74F163AMR1	,	MC74F164M
MC74F164MEL	,	MC74F164ML1	,	MC74F164MR1	,	MC74F169M
MC74F169ML1	,	MC74F174M	,	MC74F174MEL	,	MC74F174ML1
MC74F175M	,	MC74F175MEL	,	MC74F175ML1	,	MC74F175MR1
MC74F194M	,	MC74F194MEL	,	MC74F194ML1	,	MC74F194MR1
MC74F20M	,	MC74F20MEL	,	MC74F20ML1	,	MC74F20MR1
MC74F21M	,	MC74F240M	,	MC74F240MEL	,	MC74F240ML1
MC74F240MR1	,	MC74F241M	,	MC74F241ML1	,	MC74F241MR1
MC74F243M	,	MC74F243ML1	,	MC74F244M	,	MC74F244MEL
MC74F244ML1	,	MC74F244MR1	,	MC74F244MR2	,	MC74F245M
MC74F245MEL	,	MC74F245ML1	,	MC74F245MR1	,	MC74F245MR2
MC74F251M	,	MC74F251MEL	,	MC74F251MR1	,	MC74F253M
MC74F253MEL	,	MC74F253ML1	,	MC74F257AM	,	MC74F257AMEL
MC74F257AML1	,	MC74F257AMR1	,	MC74F258AM	,	MC74F259M
MC74F259ML1	,	MC74F280M	,	MC74F280MEL	,	MC74F280ML1
MC74F280MR1	,	MC74F283M	,	MC74F283ML1	,	MC74F283MR1
MC74F32M	,	MC74F32MEL	,	MC74F32ML1	,	MC74F32MR1
MC74F32MR2	,	MC74F367M	,	MC74F367MEL	,	MC74F367ML1
MC74F373M	,	MC74F373MEL	,	MC74F373ML1	,	MC74F373MR1
MC74F374M	,	MC74F374MEL	,	MC74F374ML1	,	MC74F374MR1
MC74F377M	,	MC74F377MEL	,	MC74F377ML1	,	MC74F378ML1
MC74F378ML2	,	MC74F379M	,	MC74F379MEL	,	MC74F379MR1
MC74F37M	,	MC74F37MEL	,	MC74F38M	,	MC74F38MEL
MC74F38ML1	,	MC74F38MR1	,	MC74F399M	,	MC74F399MEL
MC74F399ML1	,	MC74F51M	,	MC74F51MR1	,	MC74F521M
MC74F521MEL	,	MC74F521ML1	,	MC74F533M	,	MC74F534M
MC74F534ML1	,	MC74F74M	,	MC74F74MEL	,	MC74F74ML1
MC74F74MR1	,	MC74F74MR2	,	MC74F85M	,	MC74F86M
MC74F86MEL	,	MC74F86ML1	,	MC74F86MR1	,	MC74HC00AF
MC74HC00AFEL	,	MC74HC00AFL1	,	MC74HC00AFL2	,	MC74HC00AFR1



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MC74HC00AFR2	,	MC74HC02AF	,	MC74HC02AFEL	,	MC74HC02AFL1
MC74HC02AFL2	,	MC74HC02AFR1	,	MC74HC02AFR2	,	MC74HC03AF
MC74HC03AFEL	,	MC74HC03AFL1	,	MC74HC03AFL2	,	MC74HC03AFR1
MC74HC03AFR2	,	MC74HC04AF	,	MC74HC04AFEL	,	MC74HC04AFL1
MC74HC04AFL2	,	MC74HC04AFR1	,	MC74HC04AFR2	,	MC74HC08AF
MC74HC08AFEL	,	MC74HC08AFL1	,	MC74HC08AFL2	,	MC74HC08AFR1
MC74HC08AFR2	,	MC74HC107F	,	MC74HC107FEL	,	MC74HC107FL1
MC74HC107FL2	,	MC74HC107FR2	,	MC74HC109F	,	MC74HC109FEL
MC74HC109FR1	,	MC74HC109FR2	,	MC74HC10F	,	MC74HC10FEL
MC74HC10FL1	,	MC74HC10FL2	,	MC74HC10FR1	,	MC74HC10FR2
MC74HC112F	,	MC74HC112FL1	,	MC74HC112FR2	,	MC74HC11F
MC74HC11FEL	,	MC74HC11FL1	,	MC74HC11FL2	,	MC74HC11FR1
MC74HC11FR2	,	MC74HC125AF	,	MC74HC125AFEL	,	MC74HC125AFL1
MC74HC125AFL2	,	MC74HC125AFR1	,	MC74HC125AFR2	,	MC74HC126AF
MC74HC126AFEL	,	MC74HC126AFL1	,	MC74HC126AFL2	,	MC74HC126AFR1
MC74HC126AFR2	,	MC74HC132AF	,	MC74HC132AFEL	,	MC74HC132AFL1
MC74HC132AFL2	,	MC74HC132AFR1	,	MC74HC132AFR2	,	MC74HC133F
MC74HC133FEL	,	MC74HC133FL1	,	MC74HC133FR2	,	MC74HC137F
MC74HC137FL1	,	MC74HC137FL2	,	MC74HC137FR2	,	MC74HC138AF
MC74HC138AFEL	,	MC74HC138AFL1	,	MC74HC138AFL2	,	MC74HC138AFR1
MC74HC138AFR2	,	MC74HC139AF	,	MC74HC139AFEL	,	MC74HC139AFL1
MC74HC139AFL2	,	MC74HC139AFR1	,	MC74HC139AFR2	,	MC74HC147F
MC74HC147FEL	,	MC74HC147FL1	,	MC74HC14AF	,	MC74HC14AFEL
MC74HC14AFL1	,	MC74HC14AFL2	,	MC74HC14AFR1	,	MC74HC14AFR2
MC74HC151F	,	MC74HC151FEL	,	MC74HC151FL1	,	MC74HC151FL2
MC74HC151FR1	,	MC74HC151FR2	,	MC74HC153F	,	MC74HC153FEL
MC74HC153FL1	,	MC74HC153FR1	,	MC74HC153FR2	,	MC74HC157AF
MC74HC157AFEL	,	MC74HC157AFL1	,	MC74HC157AFL2	,	MC74HC157AFR1
MC74HC157AFR2	,	MC74HC158AF	,	MC74HC158AFEL	,	MC74HC158AFL1
MC74HC158AFL2	,	MC74HC158AFR1	,	MC74HC158AFR2	,	MC74HC160AF
MC74HC160AFEL	,	MC74HC160AFL1	,	MC74HC160AFL2	,	MC74HC160AFR1
MC74HC160AFR2	,	MC74HC160F	,	MC74HC160FEL	,	MC74HC160FL1
MC74HC160FL2	,	MC74HC160FR1	,	MC74HC160FR2	,	MC74HC161AF
MC74HC161AFEL	,	MC74HC161AFL1	,	MC74HC161AFL2	,	MC74HC161AFR1
MC74HC161AFR2	,	MC74HC162AF	,	MC74HC162AFEL	,	MC74HC162AFL1
MC74HC162AFL2	,	MC74HC162AFR1	,	MC74HC162AFR2	,	MC74HC162F
MC74HC162FL1	,	MC74HC163AF	,	MC74HC163AFEL	,	MC74HC163AFL1
MC74HC163AFL2	,	MC74HC163AFR1	,	MC74HC163AFR2	,	MC74HC164AF
MC74HC164AFEL	,	MC74HC164AFL1	,	MC74HC164AFL2	,	MC74HC164AFR1
MC74HC164AFR2	,	MC74HC164F	,	MC74HC164FEL	,	MC74HC164FL1
MC74HC164FL2	,	MC74HC164FR1	,	MC74HC164FR2	,	MC74HC165AF
MC74HC165AFEL	,	MC74HC165AFL1	,	MC74HC165AFL2	,	MC74HC165AFR1
MC74HC165AFR2	,	MC74HC165F	,	MC74HC165FEL	,	MC74HC165FL1
MC74HC165FR1	,	MC74HC165FR2	,	MC74HC173F	,	MC74HC173FEL
MC74HC173FL1	,	MC74HC173FR2	,	MC74HC174AF	,	MC74HC174AFEL
MC74HC174AFL1	,	MC74HC174AFL2	,	MC74HC174AFR1	,	MC74HC174AFR2
MC74HC175F	,	MC74HC175FEL	,	MC74HC175FL1	,	MC74HC175FL2
MC74HC175FR1	,	MC74HC175FR2	,	MC74HC194F	,	MC74HC194FEL
MC74HC194FL1	,	MC74HC194FR1	,	MC74HC194FR2	,	MC74HC195F
MC74HC195FEL	,	MC74HC195FL1	,	MC74HC20F	,	MC74HC20FEL
MC74HC20FL1	,	MC74HC20FR1	,	MC74HC20FR2	,	MC74HC237F

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ISSUING DIVISION:NML-S/ISYS

MC74HC237FEL	,	MC74HC237FL1	,	MC74HC237FL2	,	MC74HC237FR1
MC74HC237FR2	,	MC74HC240AF	,	MC74HC240AFEL	,	MC74HC240AFL1
MC74HC240AFL2	,	MC74HC240AFR1	,	MC74HC240AFR2	,	MC74HC241AF
MC74HC241AFEL	,	MC74HC241AFL1	,	MC74HC241AFL2	,	MC74HC241AFR1
MC74HC242F	,	MC74HC242FEL	,	MC74HC244AF	,	MC74HC244AFEL
MC74HC244AFL1	,	MC74HC244AFL2	,	MC74HC244AFR1	,	MC74HC244AFR2
MC74HC245AF	,	MC74HC245AFEL	,	MC74HC245AFL1	,	MC74HC245AFL2
MC74HC245AFR1	,	MC74HC245AFR2	,	MC74HC251F	,	MC74HC251FEL
MC74HC251FL1	,	MC74HC251FL2	,	MC74HC251FR2	,	MC74HC253F
MC74HC253FEL	,	MC74HC253FL1	,	MC74HC253FR2	,	MC74HC257F
MC74HC257FEL	,	MC74HC257FL1	,	MC74HC257FL2	,	MC74HC257FR1
MC74HC257FR2	,	MC74HC259F	,	MC74HC259FEL	,	MC74HC259FL1
MC74HC273AF	,	MC74HC273AFEL	,	MC74HC273AFL1	,	MC74HC273AFR1
MC74HC273AFR2	,	MC74HC27F	,	MC74HC27FEL	,	MC74HC27FL1
MC74HC27FL2	,	MC74HC27FR1	,	MC74HC27FR2	,	MC74HC280F
MC74HC280FEL	,	MC74HC280FL1	,	MC74HC280FR2	,	MC74HC299F
MC74HC299FR2	,	MC74HC30F	,	MC74HC30FEL	,	MC74HC30FL1
MC74HC30FR1	,	MC74HC30FR2	,	MC74HC32AF	,	MC74HC32AFEL
MC74HC32AFL1	,	MC74HC32AFL2	,	MC74HC32AFR1	,	MC74HC32AFR2
MC74HC354F	,	MC74HC354FEL	,	MC74HC365AF	,	MC74HC365AFEL
MC74HC365AFL1	,	MC74HC365AFL2	,	MC74HC365AFR1	,	MC74HC365AFR2
MC74HC365F	,	MC74HC365FEL	,	MC74HC365FL1	,	MC74HC365FL2
MC74HC365FR1	,	MC74HC365FR2	,	MC74HC366F	,	MC74HC367AF
MC74HC367AFEL	,	MC74HC367AFL1	,	MC74HC367AFL2	,	MC74HC367AFR1
MC74HC367AFR2	,	MC74HC367F	,	MC74HC367FEL	,	MC74HC367FL1
MC74HC367FL2	,	MC74HC367FR1	,	MC74HC367FR2	,	MC74HC368F
MC74HC368FEL	,	MC74HC368FL1	,	MC74HC373AF	,	MC74HC373AFEL
MC74HC373AFL1	,	MC74HC373AFL2	,	MC74HC373AFR1	,	MC74HC373AFR2
MC74HC374AF	,	MC74HC374AFEL	,	MC74HC374AFL1	,	MC74HC374AFL2
MC74HC374AFR1	,	MC74HC374AFR2	,	MC74HC390F	,	MC74HC390FEL
MC74HC390FL1	,	MC74HC390FL2	,	MC74HC390FR1	,	MC74HC390FR2
MC74HC393F	,	MC74HC393FEL	,	MC74HC393FL1	,	MC74HC393FL2
MC74HC393FR1	,	MC74HC393FR2	,	MC74HC4002F	,	MC74HC4002FEL
MC74HC4002FL1	,	MC74HC4017F	,	MC74HC4017FEL	,	MC74HC4017FL1
MC74HC4017FR2	,	MC74HC4020AF	,	MC74HC4020AFEL	,	MC74HC4020AFL1
MC74HC4020AFL2	,	MC74HC4020AFR1	,	MC74HC4020AFR2	,	MC74HC4020FL1
MC74HC4020FL2	,	MC74HC4024F	,	MC74HC4024FEL	,	MC74HC4024FL1
MC74HC4024FL2	,	MC74HC4024FR1	,	MC74HC4040AF	,	MC74HC4040AFEL
MC74HC4040AFL1	,	MC74HC4040AFR1	,	MC74HC4040AFR2	,	MC74HC4040F
MC74HC4040FEL	,	MC74HC4046AF	,	MC74HC4046AFEL	,	MC74HC4046AFL1
MC74HC4046AFL2	,	MC74HC4046AFR1	,	MC74HC4046AFR2	,	MC74HC4049F
MC74HC4049FEL	,	MC74HC4049FL1	,	MC74HC4049FL2	,	MC74HC4049FR2
MC74HC4050F	,	MC74HC4050FEL	,	MC74HC4050FL1	,	MC74HC4050FR1
MC74HC4050FR2	,	MC74HC4051F	,	MC74HC4051FEL	,	MC74HC4051FL1
MC74HC4051FL2	,	MC74HC4051FR1	,	MC74HC4051FR2	,	MC74HC4052F
MC74HC4052FEL	,	MC74HC4052FL1	,	MC74HC4052FL2	,	MC74HC4052FR1
MC74HC4052FR2	,	MC74HC4053F	,	MC74HC4053FEL	,	MC74HC4053FL1
MC74HC4053FL2	,	MC74HC4053FR1	,	MC74HC4053FR2	,	MC74HC4060AF
MC74HC4060AFEL	,	MC74HC4060AFL1	,	MC74HC4060F	,	MC74HC4066F
MC74HC4066FEL	,	MC74HC4066FL1	,	MC74HC4066FL2	,	MC74HC4066FR1
MC74HC4066FR2	,	MC74HC4075F	,	MC74HC4075FEL	,	MC74HC4075FL1

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MC74HC4075FL2	,	MC74HC4075FR1	,	MC74HC4075FR2	,	MC74HC4078F
MC74HC4078FEL	,	MC74HC4078FL1	,	MC74HC4078FR1	,	MC74HC42F
MC74HC42FEL	,	MC74HC42FL1	,	MC74HC42FL2	,	MC74HC42FR1
MC74HC4316F	,	MC74HC4316FEL	,	MC74HC4316FL1	,	MC74HC4316FR1
MC74HC4351F	,	MC74HC4351FEL	,	MC74HC4351FL1	,	MC74HC4511F
MC74HC4511FEL	,	MC74HC4511FL1	,	MC74HC4538AF	,	MC74HC4538AFEL
MC74HC4538AFL1	,	MC74HC4538AFL2	,	MC74HC4538AFR1	,	MC74HC4538AFR2
MC74HC4851AF	,	MC74HC4851AFEL	,	MC74HC4851AFL1	,	MC74HC4851AFL2
MC74HC4851AFR1	,	MC74HC4851AFR2	,	MC74HC4852AF	,	MC74HC4852AFEL
MC74HC4852AFL1	,	MC74HC4852AFL2	,	MC74HC4852AFR1	,	MC74HC4852AFR2
MC74HC51F	,	MC74HC51FEL	,	MC74HC51FL2	,	MC74HC51FR2
MC74HC533AF	,	MC74HC533AFL1	,	MC74HC533AFR2	,	MC74HC534AF
MC74HC534AFEL	,	MC74HC534AFL1	,	MC74HC534AFL2	,	MC74HC540AF
MC74HC540AFEL	,	MC74HC540AFL1	,	MC74HC540AFR1	,	MC74HC540AFR2
MC74HC541AF	,	MC74HC541AFEL	,	MC74HC541AFL1	,	MC74HC541AFR1
MC74HC541AFR2	,	MC74HC563AF	,	MC74HC563AFEL	,	MC74HC563AFL1
MC74HC563AFL2	,	MC74HC563F	,	MC74HC564AF	,	MC74HC564AFEL
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MC74HC574AF	,	MC74HC574AFEL	,	MC74HC574AFL1	,	MC74HC574AFR1
MC74HC574AFR2	,	MC74HC589AF	,	MC74HC589AFEL	,	MC74HC589AFL1
MC74HC589AFL2	,	MC74HC589F	,	MC74HC589FEL	,	MC74HC589FL2
MC74HC58F	,	MC74HC58FEL	,	MC74HC58FL1	,	MC74HC58FR1
MC74HC595AF	,	MC74HC595AFEL	,	MC74HC595AFL1	,	MC74HC595AFL2
MC74HC595AFR1	,	MC74HC595AFR2	,	MC74HC597AF	,	MC74HC597AFEL
MC74HC597AFL1	,	MC74HC597AFL2	,	MC74HC597AFR1	,	MC74HC597AFR2
MC74HC597F	,	MC74HC597FEL	,	MC74HC640AF	,	MC74HC640AFEL
MC74HC640AFL1	,	MC74HC688F	,	MC74HC688FEL	,	MC74HC688FL1
MC74HC688FR1	,	MC74HC688FR2	,	MC74HC7266AF	,	MC74HC7266AFEL
MC74HC7266AFL1	,	MC74HC7266AFR1	,	MC74HC7266FR1	,	MC74HC73F
MC74HC73FEL	,	MC74HC74AF	,	MC74HC74AFEL	,	MC74HC74AFL1
MC74HC74AFL2	,	MC74HC74AFR1	,	MC74HC74AFR2	,	MC74HC75F
MC74HC75FEL	,	MC74HC75FL1	,	MC74HC75FL2	,	MC74HC76F
MC74HC76FL1	,	MC74HC85F	,	MC74HC85FEL	,	MC74HC85FL1
MC74HC85FL2	,	MC74HC85FR1	,	MC74HC85FR2	,	MC74HC86AF
MC74HC86AFEL	,	MC74HC86AFL1	,	MC74HC86AFL2	,	MC74HC86AFR1
MC74HC86AFR2	,	MC74HC86F	,	MC74HC86FEL	,	MC74HC86FR2
MC74HCT00AF	,	MC74HCT00AFEL	,	MC74HCT00AFL1	,	MC74HCT00AFL2
MC74HCT04AF	,	MC74HCT04AFEL	,	MC74HCT04AFL1	,	MC74HCT138AF
MC74HCT138AFL1	,	MC74HCT14AF	,	MC74HCT14AFEL	,	MC74HCT14AFL1
MC74HCT14AFL2	,	MC74HCT14AFR1	,	MC74HCT14AFR2	,	MC74HCT157AF
MC74HCT157AFEL	,	MC74HCT157AFL1	,	MC74HCT157AFL2	,	MC74HCT157AFR1
MC74HCT157AFR2	,	MC74HCT240AF	,	MC74HCT240AFEL	,	MC74HCT240AFL1
MC74HCT240AFR1	,	MC74HCT241AF	,	MC74HCT241AFEL	,	MC74HCT241AFL1
MC74HCT244AF	,	MC74HCT244AFEL	,	MC74HCT244AFL1	,	MC74HCT244AFR1
MC74HCT244AFR2	,	MC74HCT245AF	,	MC74HCT245AFEL	,	MC74HCT245AFL1
MC74HCT373AF	,	MC74HCT373AFL1	,	MC74HCT374AF	,	MC74HCT374AFEL
MC74HCT374AFL1	,	MC74HCT541AF	,	MC74HCT541AFEL	,	MC74HCT541AFL1
MC74HCT573AF	,	MC74HCT573AFEL	,	MC74HCT573AFL1	,	MC74HCT573AFL2
MC74HCT573AFR1	,	MC74HCT573AFR2	,	MC74HCT574AF	,	MC74HCT574AFEL
MC74HCT640AF	,	MC74HCT640AFR1	,	MC74HCU04AF	,	MC74HCU04AFEL

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MC74HCU04AFL1	,	MC74HCU04AFL2	,	MC74HCU04AFR1	,	MC74HCU04AFR2
MC74HCU04F	,	MC74HCU04FEL	,	MC74HCU04FL1	,	MC74HCU04FL2
MC74HCU04FR1	,	MC74HCU04FR2	,	MC74LCX00M	,	MC74LCX00MEL
MC74LCX02M	,	MC74LCX02MEL	,	MC74LCX04M	,	MC74LCX04MEL
MC74LCX04ML2	,	MC74LCX08M	,	MC74LCX08MEL	,	MC74LCX125M
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MC74LCX240MEL	,	MC74LCX240ML2	,	MC74LCX244M	,	MC74LCX244MEL
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MC74LCX374M	,	MC74LCX374MEL	,	MC74LCX374ML2	,	MC74LCX540M
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MC74LCX574M	,	MC74LCX574MEL	,	MC74LCX574ML2	,	MC74LCX74M
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MC74VHCT04AMEL	,	MC74VHCT04AML1	,	MC74VHCT04AML2	,	MC74VHCT138AM

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PRODUCT AND PROCESS CHANGE NOTIFICATION

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ISSUE DATE: 07-Feb-1999

NOTIFICATION #:4419

EFFECTIVE DATE: 15-May-1999

ISSUING DIVISION:NML-S/ISYS

MC74VHCT138AMEL	, MC74VHCT138AML1	, MC74VHCT138AML2	, MC74VHCT240AM
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MC74VHCT574AMEL	, MC74VHCT574AML1	, MC74VHCT574AML2	, MC74VHCU04M
MC74VHCU04AMEL	, MC74VHCU04ML1	, MC74VHCU04ML2	, MMQF2N06VLEL
MPC1710BML1	, MPC1711M	, MPC1711NM	, MPC1720M
MPC1720MEL	, MPC1720MR1	, MPC1721AM	, MPC1721AML1
MPC1721NM	, MPC1722M	, MPC1722ML2	, MPC1724M
MPC1724MEL	, MPC1725MR2	, MPC1730M	, MPC1730MEL
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MPC1732ML2	, MPC1732MR2	, SC001HC4078FEL	, SC00214051BFL2
SC008F240M	, SC008F240MR1	, SC009HC139F	, SC012HC14AFEL
SC012HC541AF	, SC012HC541AFEL	, SC014HC02AN	, SC014MG011BM
SC014MG011BMR2	, SC027MG051BF	, SC111019MEL	, SC111029MEL
SC1710BMR2	, SC371004AF	, SC371004AFL1	, SC371004AFL2
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SN74LS174ML1	, SN74LS174MR1	, SN74LS175M	, SN74LS175MEL

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PRODUCT AND PROCESS CHANGE NOTIFICATION

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ISSUE DATE: 07-Feb-1999

NOTIFICATION #:4419

EFFECTIVE DATE: 15-May-1999

ISSUING DIVISION:NML-S/ISYS

SN74LS175ML1	,	SN74LS175MR1	,	SN74LS175MR2	,	SN74LS193M
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SN74LS221ML1	,	SN74LS221ML2	,	SN74LS240M	,	SN74LS240MEL
SN74LS240ML1	,	SN74LS240MR1	,	SN74LS240MR2	,	SN74LS241M
SN74LS241ML1	,	SN74LS242M	,	SN74LS242MEL	,	SN74LS242MR2
SN74LS244M	,	SN74LS244MEL	,	SN74LS244ML1	,	SN74LS244MR1
SN74LS244MR2	,	SN74LS245M	,	SN74LS245MEL	,	SN74LS245ML1
SN74LS245MR1	,	SN74LS245MR2	,	SN74LS251M	,	SN74LS251ML1
SN74LS251MR1	,	SN74LS253M	,	SN74LS253ML1	,	SN74LS257BM
SN74LS257BMEL	,	SN74LS257BMR1	,	SN74LS258BM	,	SN74LS258BMEL
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TSC14052BFL2	,	TSC14052BFR1	,	TSC14052BFR2	,	TSC14053BF
TSC14053BFEL	,	TSC14053BFL1	,	TSC14053BFL2	,	TSC14053BFR1
TSC14053BFR2	,	TSC14066BF	,	TSC14066BFEL	,	TSC14066BFL1
TSC14066BFL2	,	TSC14066BFR1	,	TSC14066BFR2	,	TSC74HC139AF
TSC74HC164F	,	TSC74HC244AF	,	TSC74HC541AF	,	TSC74HC541AFL1
TY44860AM	,	TY60078M	,	TY60078MR2	,	UA78S40MC
XC145202F	,	XC145220F	,	XC44868M	,	XC68HC68VBIFB