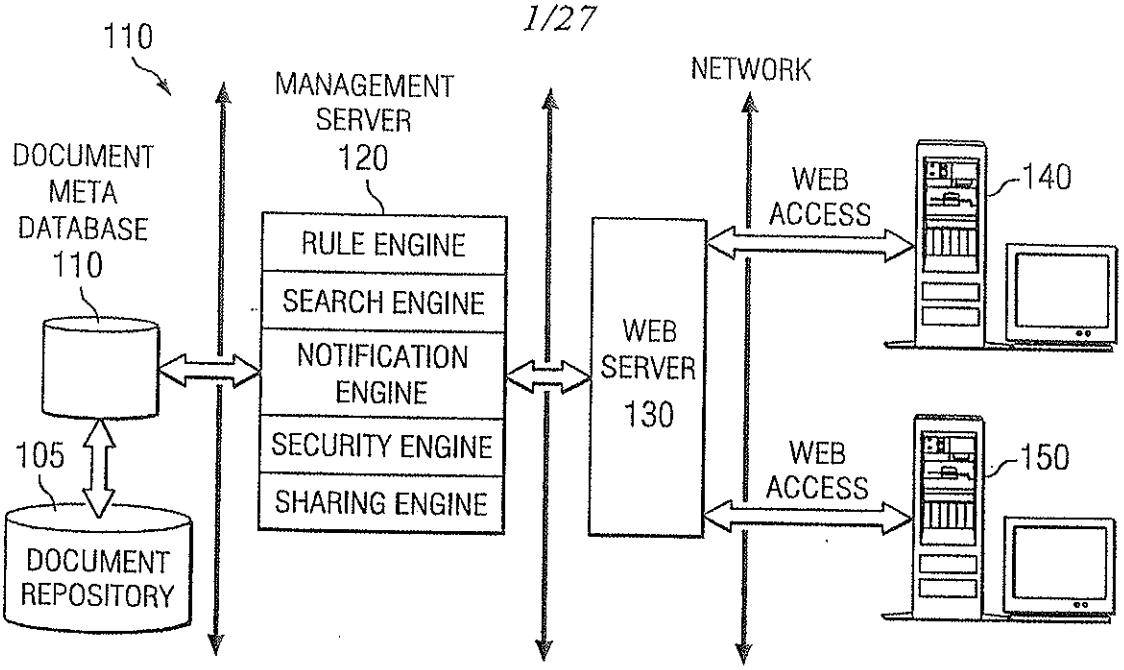

110
MANAGEMENT SERVER
120
NETWORK
DOCUMENT META DATABASE
110
RULE ENGINE
SEARCH ENGINE
NOTIFICATION ENGINE
SECURITY ENGINE
SHARING ENGINE
WEB SERVER
130
WEB ACCESS
140
WEB ACCESS
150
105
DOCUMENT REPOSITORY

FIG. 1

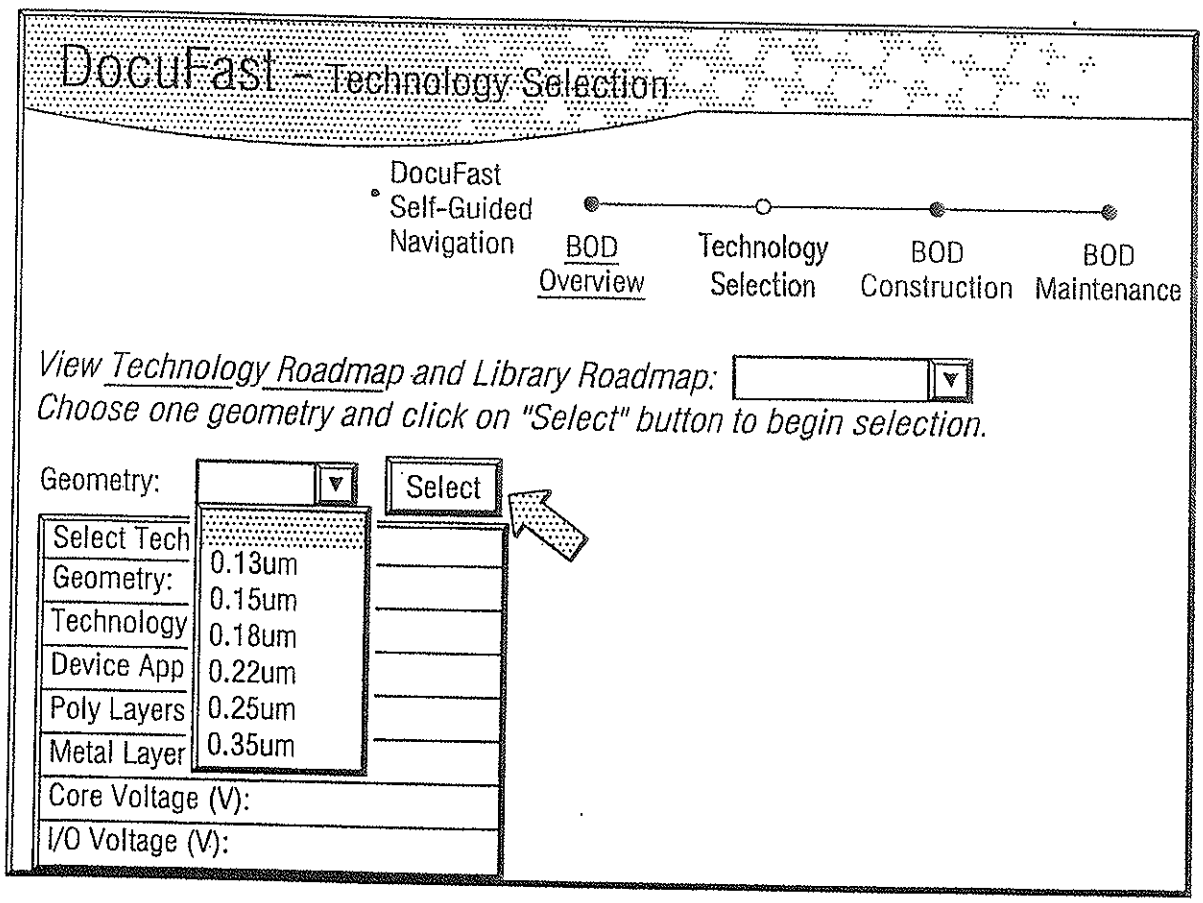

DocuFast – Technology Selection
DocuFast Self-Guided Navigation
BOD Overview
Technology Selection
BOD Construction
BOD Maintenance
View Technology Roadmap and Library Roadmap:
Choose one geometry and click on "Select" button to begin selection.
Geometry:
Select
Select Tech
Geometry:
Technology
Device App
Poly Layers
Metal Layer
0.13um
0.15um
0.18um
0.22um
0.25um
0.35um
Core Voltage (V):
I/O Voltage (V):

FIG. 2A

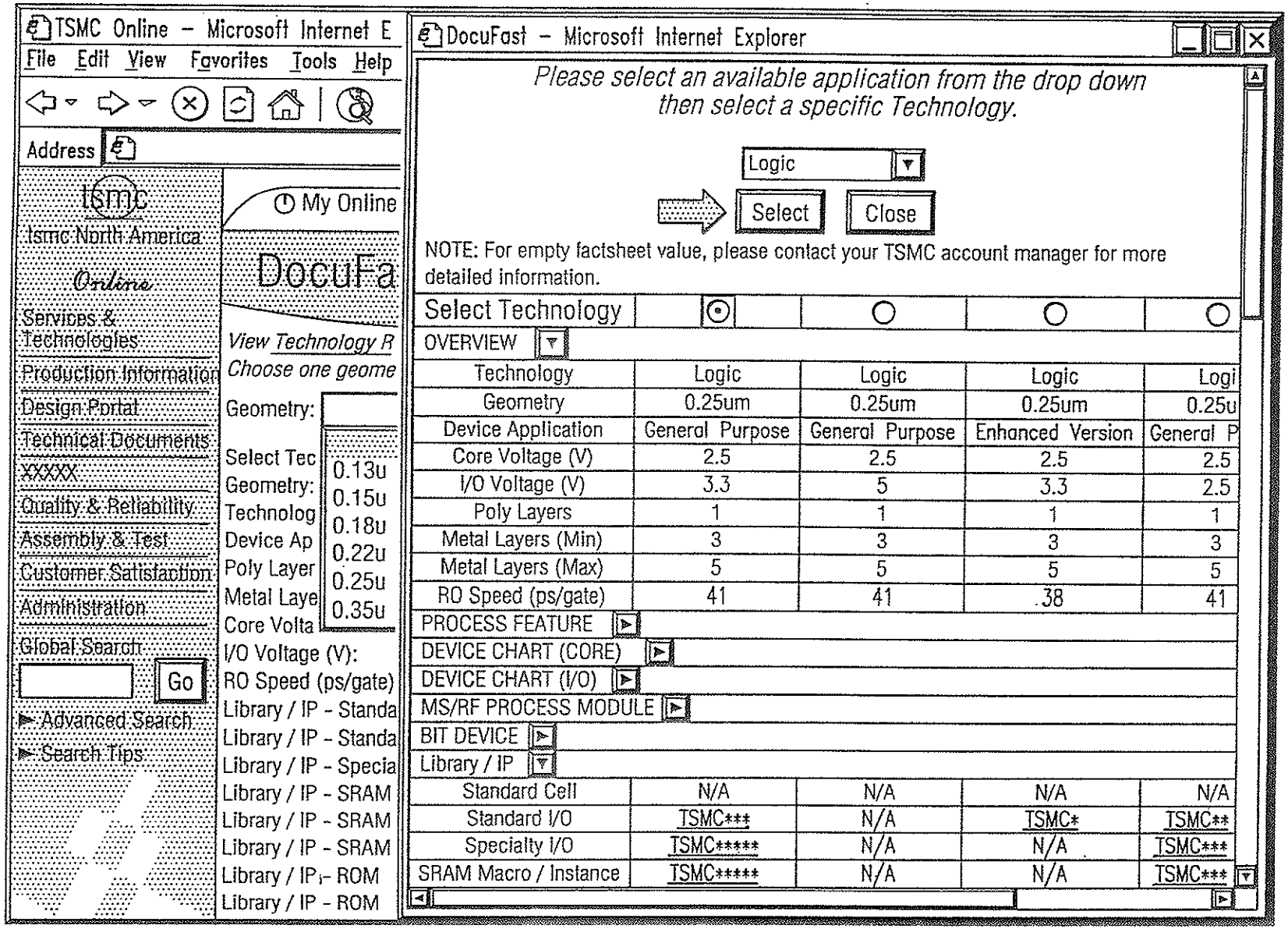

TSMC Online – Microsoft Internet E
File Edit View Favorites Tools Help
Address
tsmc
tsmc North America
Online
Services & Technologies
Production Information
Design Portal
Technical Documents
xxxxx
Quality & Reliability
Assembly & Test
Customer Satisfaction
Administration
Global Search
Go
Advanced Search
Search Tips
My Online
DocuFa
View Technology R
Choose one geome
Geometry:
Select Tec
Geometry:
Technolog
Device Ap
Poly Layer
Metal Laye
Core Volta
0.13u
0.15u
0.18u
0.22u
0.25u
0.35u
I/O Voltage (V):
RO Speed (ps/gate)
Library / IP - Standa
Library / IP - Standa
Library / IP - Specia
Library / IP - SRAM
Library / IP - SRAM
Library / IP - SRAM
Library / IP - ROM
Library / IP - ROM
DocuFast – Microsoft Internet Explorer
Please select an available application from the drop down
then select a specific Technology.
Logic
Select
Close
NOTE: For empty factsheet value, please contact your TSMC account manager for more detailed information.
Select Technology
OVERVIEW
Technology | Logic | Logic | Logic | Logi
Geometry | 0.25um | 0.25um | 0.25um | 0.25u
Device Application | General Purpose | General Purpose | Enhanced Version | General P
Core Voltage (V) | 2.5 | 2.5 | 2.5 | 2.5
I/O Voltage (V) | 3.3 | 5 | 3.3 | 2.5
Poly Layers | 1 | 1 | 1 | 1
Metal Layers (Min) | 3 | 3 | 3 | 3
Metal Layers (Max) | 5 | 5 | 5 | 5
RO Speed (ps/gate) | 41 | 41 | 38 | 41
PROCESS FEATURE
DEVICE CHART (CORE)
DEVICE CHART (I/O)
MS/RF PROCESS MODULE
BIT DEVICE
Library / IP
Standard Cell | N/A | N/A | N/A | N/A
Standard I/O | TSMC*** | N/A | TSMC* | TSMC**
Specialty I/O | TSMC***** | N/A | N/A | TSMC***
SRAM Macro / Instance | TSMC***** | N/A | N/A | TSMC***

FIG. 2B

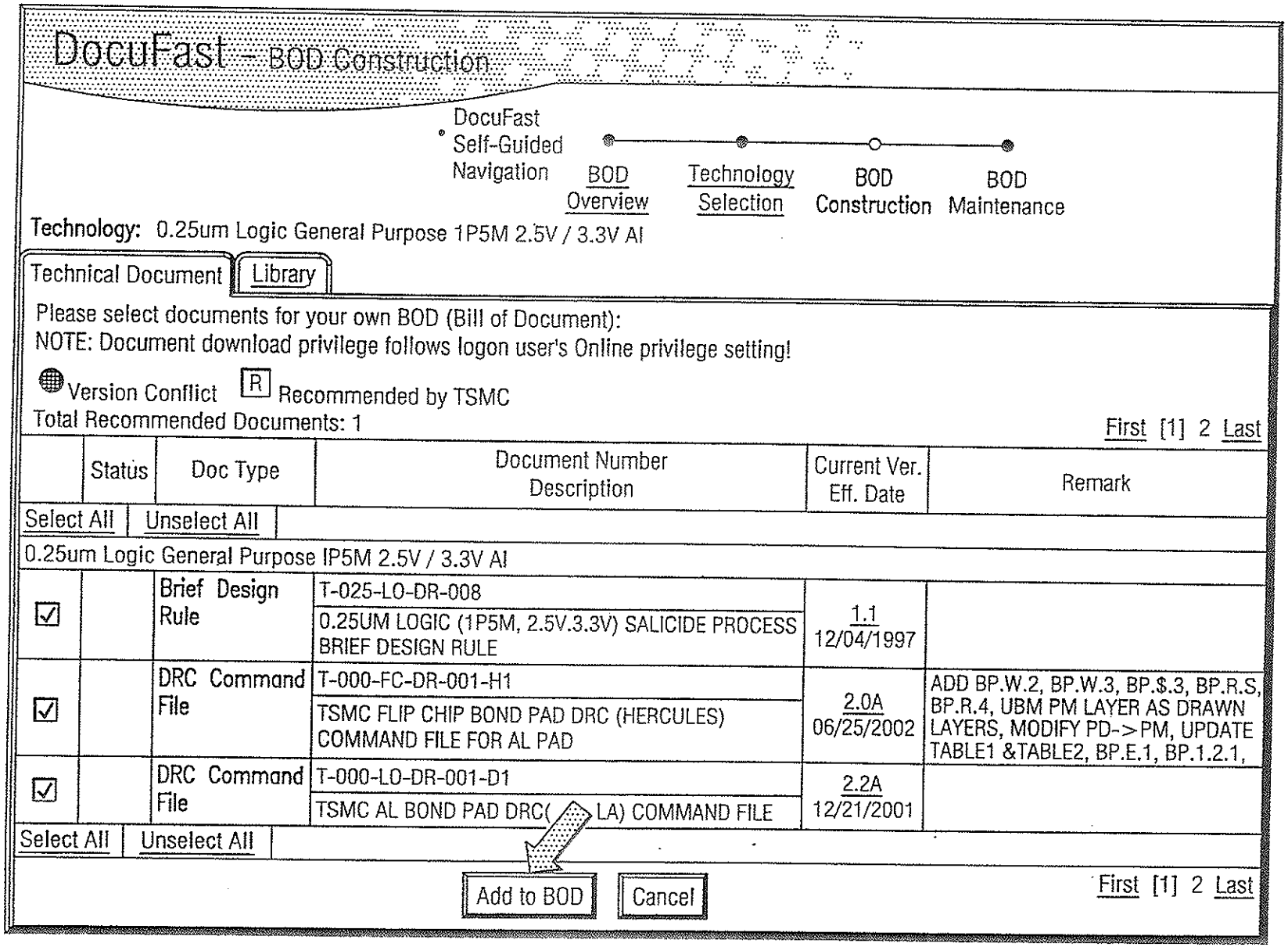

DocuFast – BOD Construction
DocuFast Self-Guided Navigation
BOD Overview
Technology Selection
BOD Construction
BOD Maintenance
Technology: 0.25um Logic General Purpose 1P5M 2.5V / 3.3V Al
Technical Document
Library
Please select documents for your own BOD (Bill of Document):
NOTE: Document download privilege follows logon user's Online privilege setting!
Version Conflict
R Recommended by TSMC
Total Recommended Documents: 1
First [1] 2 Last
Status
Doc Type
Document Number Description
Current Ver. Eff. Date
Remark
Select All
Unselect All
0.25um Logic General Purpose IP5M 2.5V / 3.3V Al
Brief Design Rule
T-025-LO-DR-008
0.25UM LOGIC (1P5M, 2.5V.3.3V) SALICIDE PROCESS BRIEF DESIGN RULE
1.1
12/04/1997
DRC Command File
T-000-FC-DR-001-H1
TSMC FLIP CHIP BOND PAD DRC (HERCULES) COMMAND FILE FOR AL PAD
2.0A
06/25/2002
ADD BP.W.2, BP.W.3, BP.$.3, BP.R.S, BP.R.4, UBM PM LAYER AS DRAWN LAYERS, MODIFY PD->PM, UPDATE TABLE1 &TABLE2, BP.E.1, BP.1.2.1,
DRC Command File
T-000-LO-DR-001-D1
TSMC AL BOND PAD DRC(LA) COMMAND FILE
2.2A
12/21/2001
Select All
Unselect All
Add to BOD
Cancel
First [1] 2 Last

FIG. 2C

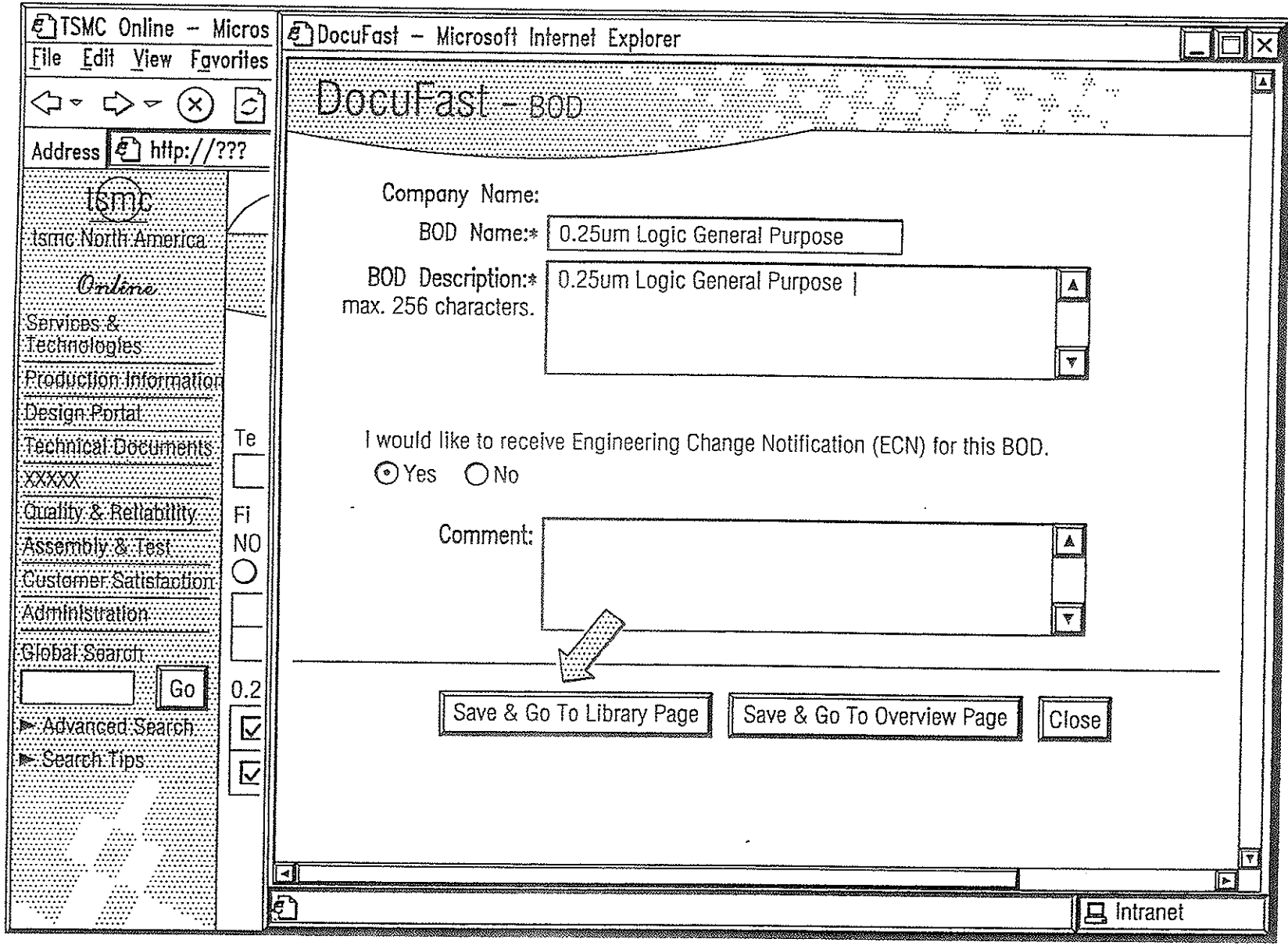

TSMC Online – Micros
File Edit View Favorites
Address http://???
tsmc
tsmc North America
Online
Services & Technologies
Production Information
Design Portal
Technical Documents
XXXXX
Quality & Reliability
Assembly & Test
Customer Satisfaction
Administration
Global Search
Go
Advanced Search
Search Tips
Te
Fi
NO
0.2
DocuFast – Microsoft Internet Explorer
DocuFast – BOD
Company Name:
BOD Name:* 0.25um Logic General Purpose
BOD Description:* max. 256 characters.
0.25um Logic General Purpose
I would like to receive Engineering Change Notification (ECN) for this BOD.
Yes No
Comment:
Save & Go To Library Page
Save & Go To Overview Page
Close
Intranet

FIG. 2D

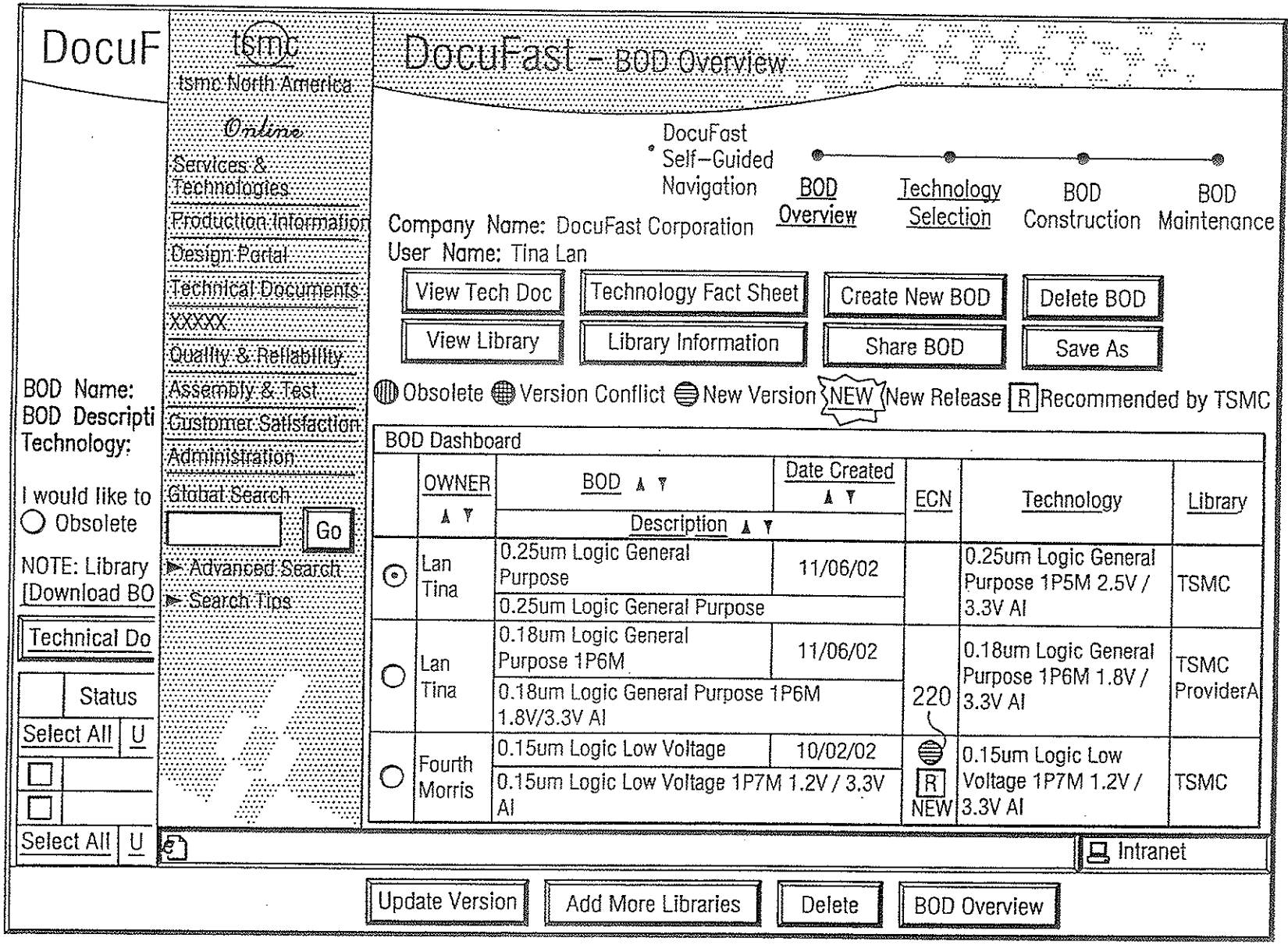

DocuF
tsmc
tsmc North America
Online
Services & Technologies
Production Information
Design Portal
Technical Documents
XXXXX
Quality & Reliability
Assembly & Test
Customer Satisfaction
Administration
Global Search
Go
Advanced Search
Search Tips
DocuFast – BOD Overview
DocuFast Self-Guided Navigation
BOD Overview
Technology Selection
BOD Construction
BOD Maintenance
Company Name: DocuFast Corporation
User Name: Tina Lan
View Tech Doc
Technology Fact Sheet
Create New BOD
Delete BOD
View Library
Library Information
Share BOD
Save As
BOD Name:
BOD Descripti
Technology:
I would like to
Obsolete
NOTE: Library
[Download BO
Technical Do
Status
Select All
U
Obsolete
Version Conflict
New Version
NEW
New Release
R
Recommended by TSMC
BOD Dashboard
OWNER
BOD
Description
Date Created
ECN
Technology
Library
Lan Tina
0.25um Logic General Purpose
11/06/02
0.25um Logic General Purpose
0.25um Logic General Purpose 1P5M 2.5V / 3.3V AI
TSMC
Lan Tina
0.18um Logic General Purpose 1P6M
11/06/02
0.18um Logic General Purpose 1P6M
1.8V/3.3V AI
220
0.18um Logic General Purpose 1P6M 1.8V / 3.3V AI
TSMC ProviderA
Fourth Morris
0.15um Logic Low Voltage
10/02/02
0.15um Logic Low Voltage 1P7M 1.2V / 3.3V AI
R
NEW
0.15um Logic Low Voltage 1P7M 1.2V / 3.3V AI
TSMC
Intranet
Update Version
Add More Libraries
Delete
BOD Overview

FIG. 2E

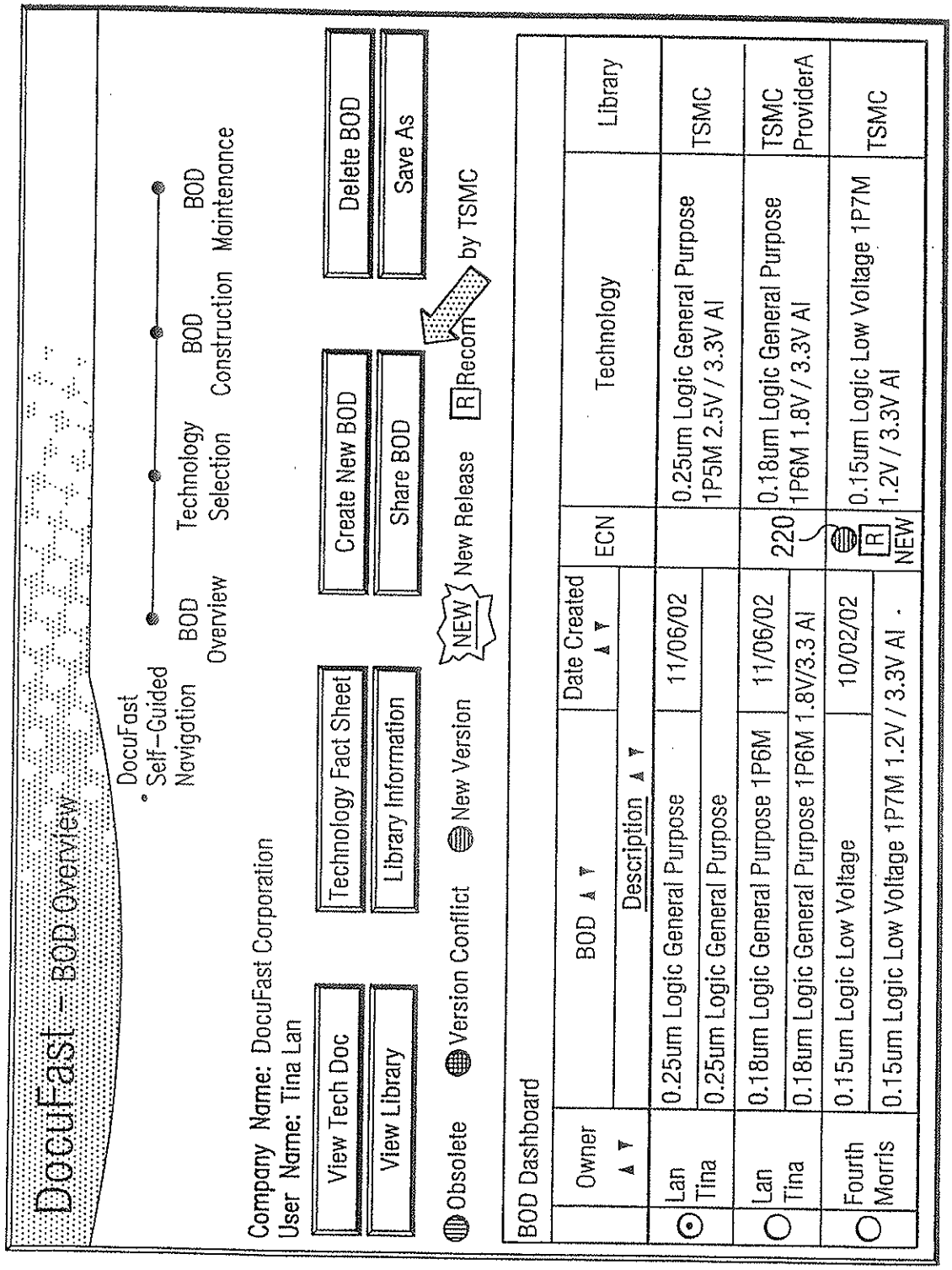

DocuFast – BOD Overview
DocuFast
Self–Guided
Navigation
BOD
Overview
Technology
Selection
BOD
Construction
BOD
Maintenance
Company Name: DocuFast Corporation
User Name: Tina Lan
View Tech Doc
View Library
Technology Fact Sheet
Library Information
Create New BOD
Share BOD
Delete BOD
Save As
Obsolete
Version Conflict
New Version
NEW
New Release
R
Recom
by TSMC
BOD Dashboard
Owner
BOD
Description
Date Created
ECN
Technology
Library
Lan
Tina
0.25um Logic General Purpose
11/06/02
0.25um Logic General Purpose
0.25um Logic General Purpose
1P5M 2.5V / 3.3V AI
TSMC
Lan
Tina
0.18um Logic General Purpose 1P6M
11/06/02
0.18um Logic General Purpose 1P6M 1.8V/3.3 AI
220
0.18um Logic General Purpose
1P6M 1.8V / 3.3V AI
TSMC
ProviderA
Fourth
Morris
0.15um Logic Low Voltage
10/02/02
0.15um Logic Low Voltage 1P7M 1.2V / 3.3V AI -
R
NEW
0.15um Logic Low Voltage 1P7M
1.2V / 3.3V AI
TSMC

FIG. 3A

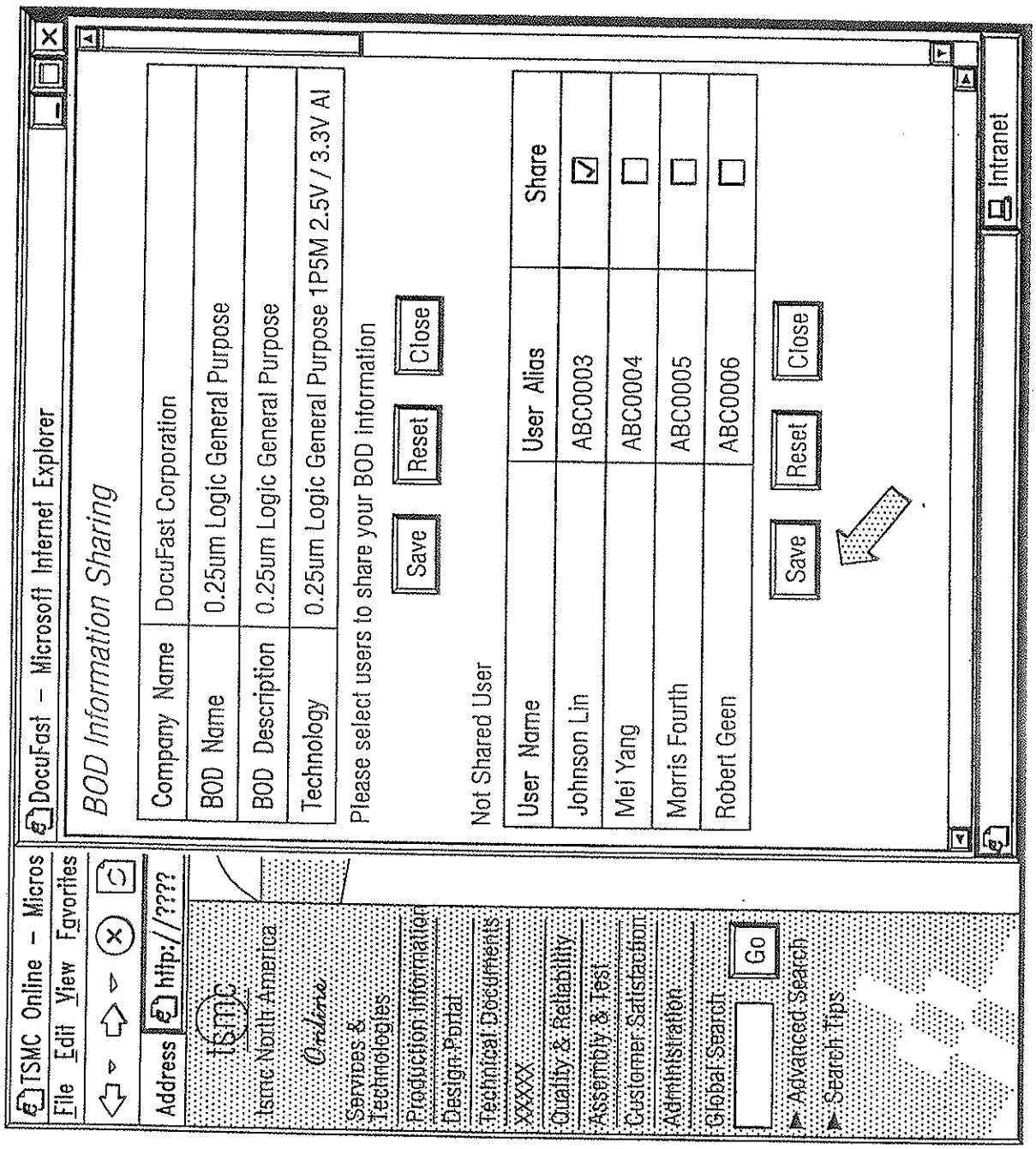

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Assembly & Test
Customer Satisfaction
Administration
Global Search
Go
Advanced Search
Search Tips
DocuFast - Microsoft Internet Explorer
BOD Information Sharing
Company Name
DocuFast Corporation
BOD Name
0.25um Logic General Purpose
BOD Description
0.25um Logic General Purpose
Technology
0.25um Logic General Purpose 1P5M 2.5V / 3.3V AI
Please select users to share your BOD information
Save
Reset
Close
Not Shared User
User Name
User Alias
Share
Johnson Lin
ABC0003
Mei Yang
ABC0004
Morris Fourth
ABC0005
Robert Geen
ABC0006
Save
Reset
Close
Intranet

FIG. 3B

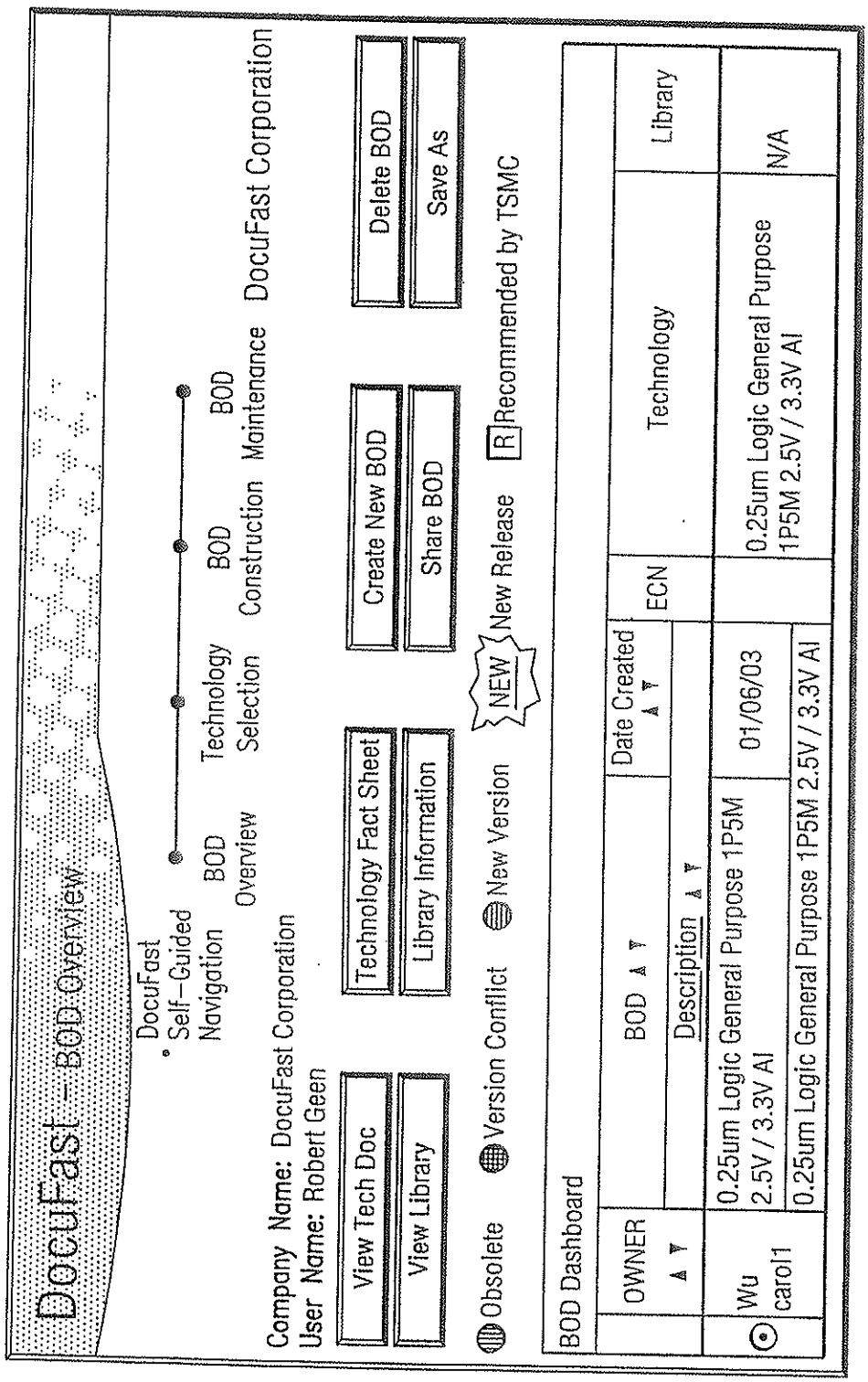

DocuFast – BOD Overview
DocuFast Self–Guided Navigation
BOD Overview
Technology Selection
BOD Construction
BOD Maintenance
Company Name: DocuFast Corporation
User Name: Robert Geen
View Tech Doc
View Library
Technology Fact Sheet
Library Information
Create New BOD
Share BOD
Delete BOD
Save As
Obsolete
Version Conflict
New Version
NEW
New Release
R Recommended by TSMC
BOD Dashboard
OWNER
BOD
Date Created
ECN
Technology
Library
Description
Wu carol1
0.25um Logic General Purpose 1P5M 2.5V / 3.3V AI
01/06/03
0.25um Logic General Purpose 1P5M 2.5V / 3.3V AI
N/A

FIG. 3C

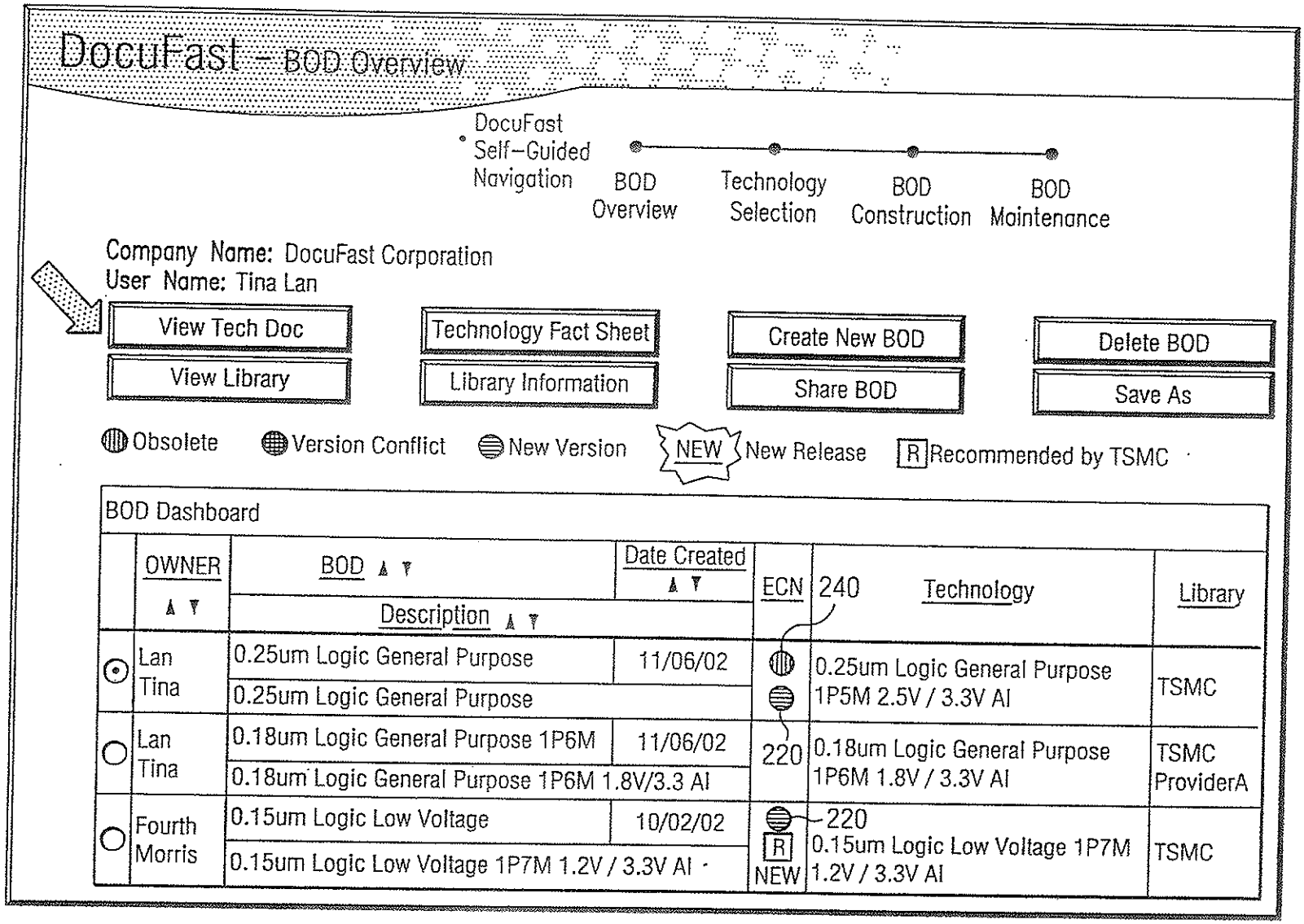

DocuFast – BOD Overview
DocuFast Self-Guided Navigation
BOD Overview
Technology Selection
BOD Construction
BOD Maintenance
Company Name: DocuFast Corporation
User Name: Tina Lan
View Tech Doc
View Library
Technology Fact Sheet
Library Information
Create New BOD
Share BOD
Delete BOD
Save As
Obsolete
Version Conflict
New Version
NEW New Release
R Recommended by TSMC
BOD Dashboard
OWNER
BOD
Description
Date Created
ECN
240
Technology
Library
Lan Tina
0.25um Logic General Purpose
11/06/02
0.25um Logic General Purpose
0.25um Logic General Purpose 1P5M 2.5V / 3.3V AI
TSMC
Lan Tina
0.18um Logic General Purpose 1P6M
11/06/02
0.18um Logic General Purpose 1P6M 1.8V/3.3 AI
220
0.18um Logic General Purpose 1P6M 1.8V / 3.3V AI
TSMC ProviderA
Fourth Morris
0.15um Logic Low Voltage
10/02/02
0.15um Logic Low Voltage 1P7M 1.2V / 3.3V AI
R NEW
220
0.15um Logic Low Voltage 1P7M 1.2V / 3.3V AI
TSMC

FIG. 4A

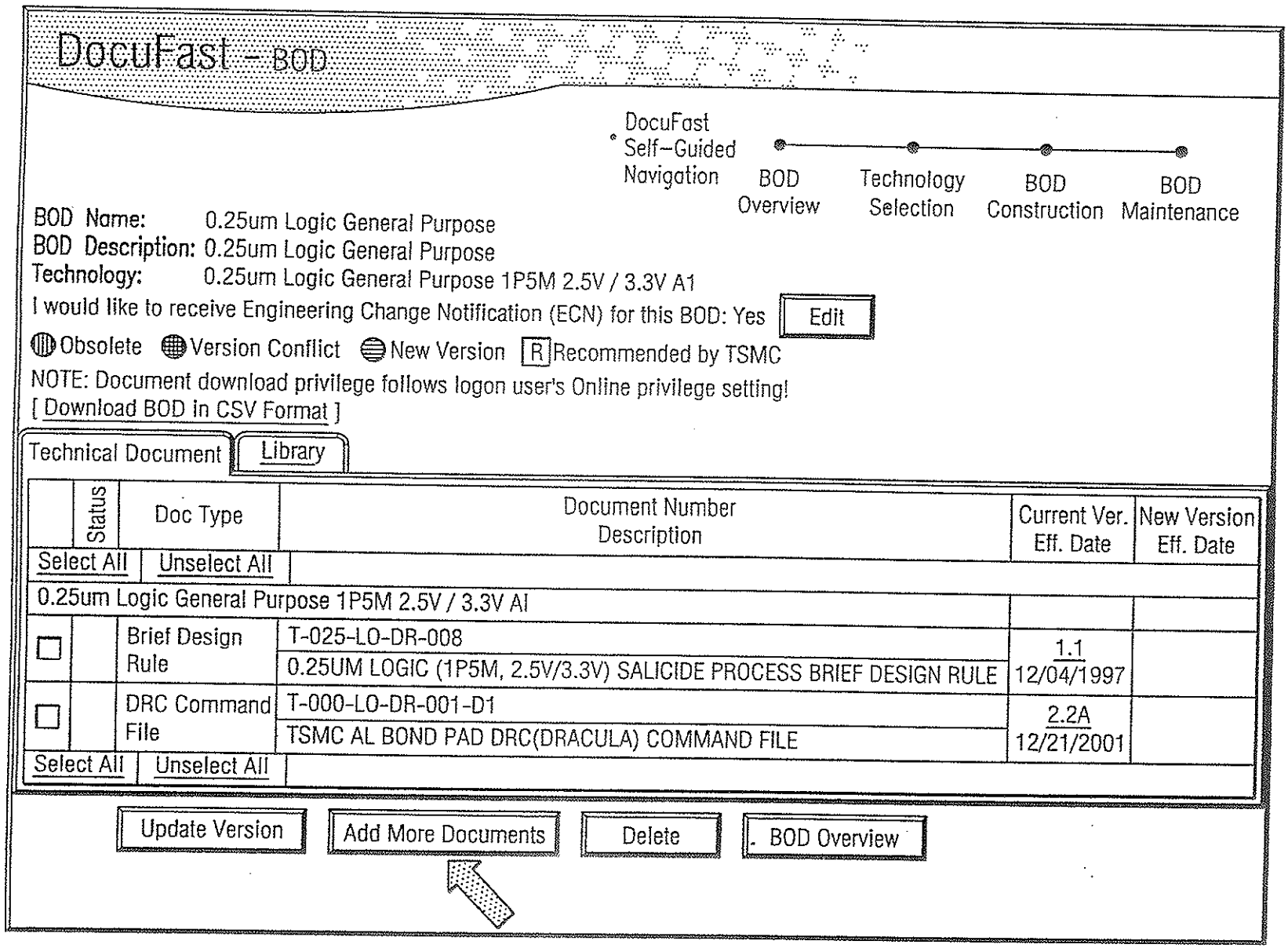

DocuFast - BOD
DocuFast Self-Guided Navigation
BOD Overview
Technology Selection
BOD Construction
BOD Maintenance
BOD Name: 0.25um Logic General Purpose
BOD Description: 0.25um Logic General Purpose
Technology: 0.25um Logic General Purpose 1P5M 2.5V / 3.3V A1
I would like to receive Engineering Change Notification (ECN) for this BOD: Yes
Edit
Obsolete
Version Conflict
New Version
R Recommended by TSMC
NOTE: Document download privilege follows logon user's Online privilege setting!
[Download BOD in CSV Format]
Technical Document
Library
Status
Doc Type
Document Number
Description
Current Ver. Eff. Date
New Version Eff. Date
Select All
Unselect All
0.25um Logic General Purpose 1P5M 2.5V / 3.3V AI
Brief Design Rule
T-025-LO-DR-008
0.25UM LOGIC (1P5M, 2.5V/3.3V) SALICIDE PROCESS BRIEF DESIGN RULE
1.1
12/04/1997
DRC Command File
T-000-LO-DR-001-D1
TSMC AL BOND PAD DRC(DRACULA) COMMAND FILE
2.2A
12/21/2001
Select All
Unselect All
Update Version
Add More Documents
Delete
BOD Overview

FIG. 4B

10/27

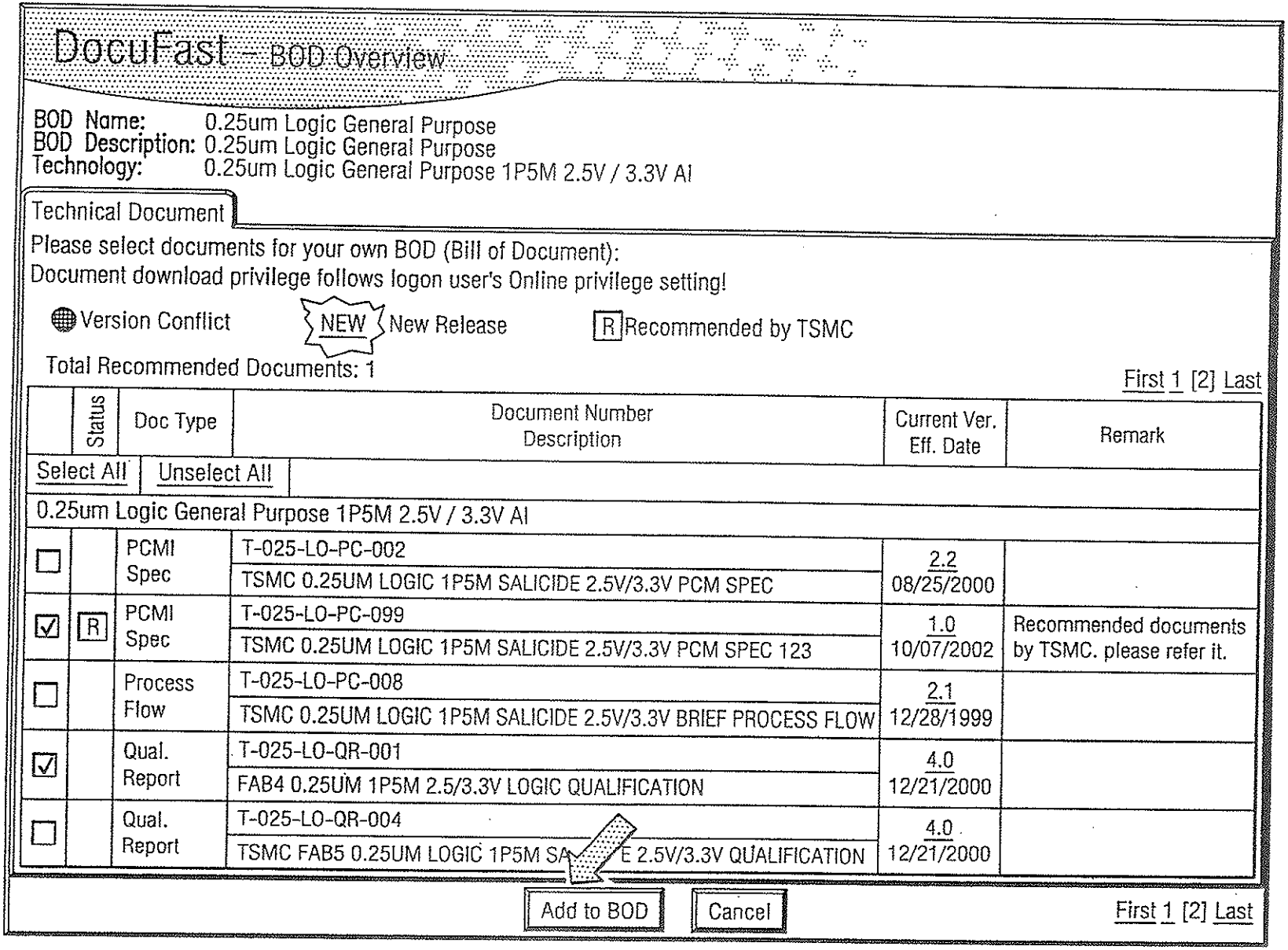

DocuFast – BOD Overview
BOD Name: 0.25um Logic General Purpose
BOD Description: 0.25um Logic General Purpose
Technology: 0.25um Logic General Purpose 1P5M 2.5V / 3.3V Al
Technical Document
Please select documents for your own BOD (Bill of Document):
Document download privilege follows logon user's Online privilege setting!
Version Conflict
NEW New Release
R Recommended by TSMC
Total Recommended Documents: 1
First 1 [2] Last
Status
Doc Type
Document Number
Description
Current Ver.
Eff. Date
Remark
Select All
Unselect All
0.25um Logic General Purpose 1P5M 2.5V / 3.3V Al
PCMI Spec
T-025-LO-PC-002
TSMC 0.25UM LOGIC 1P5M SALICIDE 2.5V/3.3V PCM SPEC
2.2
08/25/2000
PCMI Spec
T-025-LO-PC-099
TSMC 0.25UM LOGIC 1P5M SALICIDE 2.5V/3.3V PCM SPEC 123
1.0
10/07/2002
Recommended documents by TSMC. please refer it.
Process Flow
T-025-LO-PC-008
TSMC 0.25UM LOGIC 1P5M SALICIDE 2.5V/3.3V BRIEF PROCESS FLOW
2.1
12/28/1999
Qual. Report
T-025-LO-QR-001
FAB4 0.25UM 1P5M 2.5/3.3V LOGIC QUALIFICATION
4.0
12/21/2000
Qual. Report
T-025-LO-QR-004
TSMC FAB5 0.25UM LOGIC 1P5M SA E 2.5V/3.3V QUALIFICATION
4.0
12/21/2000
Add to BOD
Cancel
First 1 [2] Last

FIG. 4C

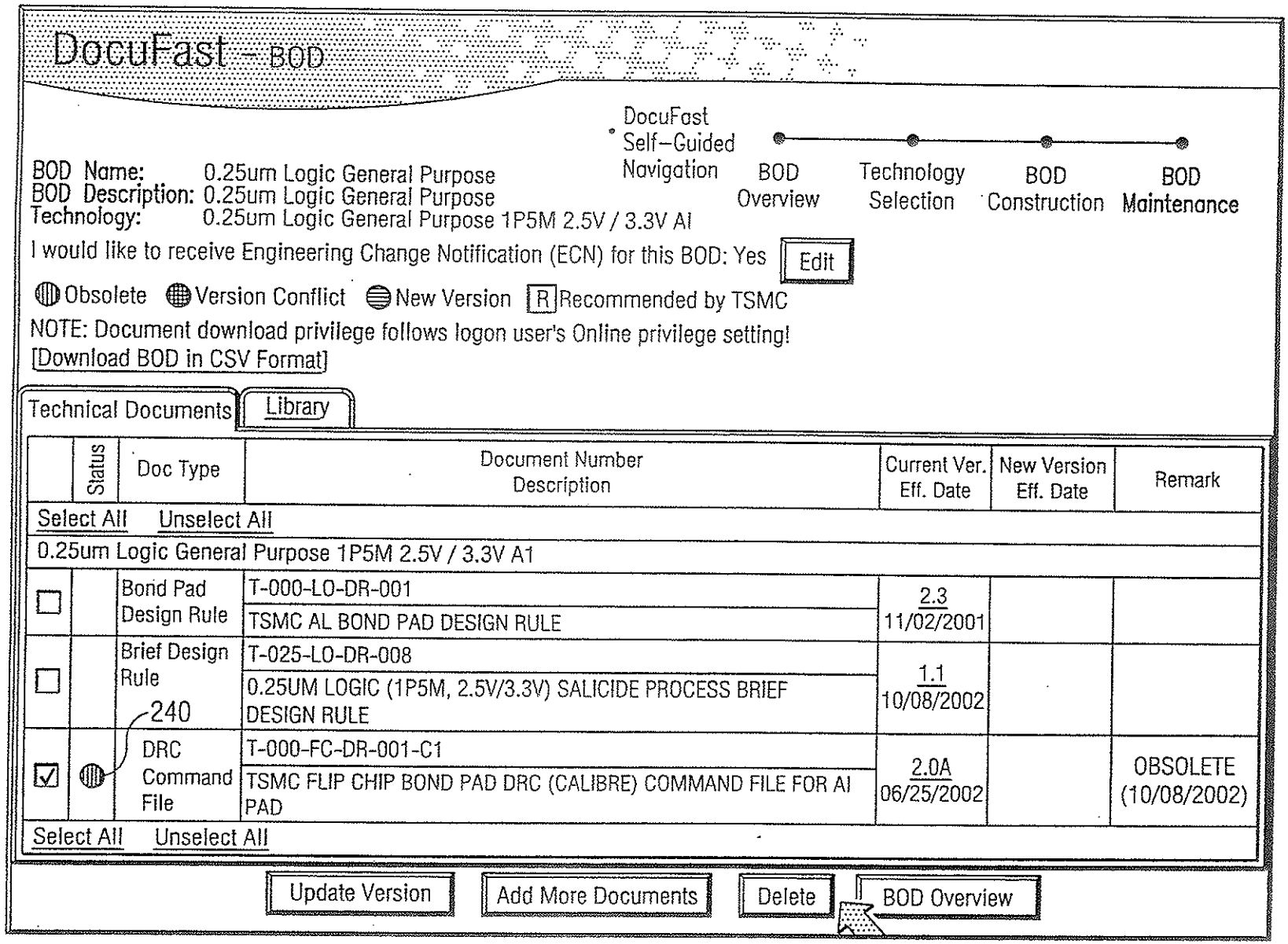

DocuFast - BOD
DocuFast Self-Guided Navigation
BOD Overview
Technology Selection
BOD Construction
BOD Maintenance
BOD Name: 0.25um Logic General Purpose
BOD Description: 0.25um Logic General Purpose
Technology: 0.25um Logic General Purpose 1P5M 2.5V / 3.3V Al
I would like to receive Engineering Change Notification (ECN) for this BOD: Yes
Edit
Obsolete
Version Conflict
New Version
R Recommended by TSMC
NOTE: Document download privilege follows logon user's Online privilege setting!
[Download BOD in CSV Format]
Technical Documents
Library
Status
Doc Type
Document Number
Description
Current Ver.
Eff. Date
New Version
Eff. Date
Remark
Select All
Unselect All
0.25um Logic General Purpose 1P5M 2.5V / 3.3V A1
Bond Pad Design Rule
T-000-LO-DR-001
TSMC AL BOND PAD DESIGN RULE
2.3
11/02/2001
Brief Design Rule
T-025-LO-DR-008
0.25UM LOGIC (1P5M, 2.5V/3.3V) SALICIDE PROCESS BRIEF DESIGN RULE
1.1
10/08/2002
240
DRC Command File
T-000-FC-DR-001-C1
TSMC FLIP CHIP BOND PAD DRC (CALIBRE) COMMAND FILE FOR Al PAD
2.0A
06/25/2002
OBSOLETE
(10/08/2002)
Select All
Unselect All
Update Version
Add More Documents
Delete
BOD Overview

FIG. 4D

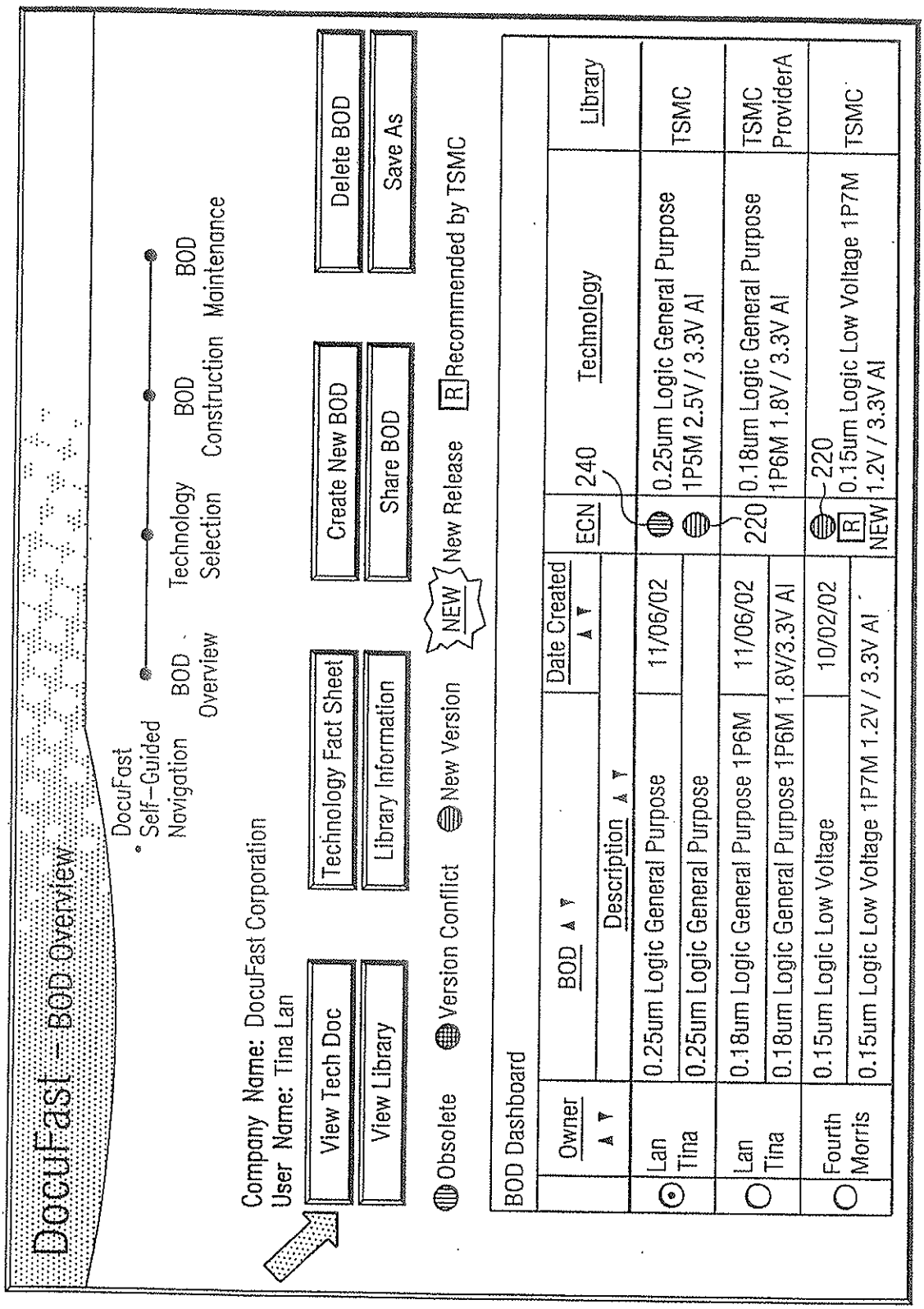

DocuFast – BOD Overview
DocuFast Self-Guided Navigation
BOD Overview
Technology Selection
BOD Construction
BOD Maintenance
Company Name: DocuFast Corporation
User Name: Tina Lan
View Tech Doc
View Library
Technology Fact Sheet
Library Information
Create New BOD
Share BOD
Delete BOD
Save As
Obsolete
Version Conflict
New Version
NEW
New Release
R Recommended by TSMC
BOD Dashboard
Owner
BOD
Description
Date Created
ECN
Technology
Library
Lan Tina
0.25um Logic General Purpose
11/06/02
240
0.25um Logic General Purpose 1P5M 2.5V / 3.3V AI
TSMC
0.25um Logic General Purpose
Lan Tina
0.18um Logic General Purpose 1P6M
11/06/02
220
0.18um Logic General Purpose 1P6M 1.8V / 3.3V AI
TSMC ProviderA
0.18um Logic General Purpose 1P6M 1.8V/3.3V AI
Fourth Morris
0.15um Logic Low Voltage
10/02/02
220
R NEW
0.15um Logic Low Voltage 1P7M 1.2V / 3.3V AI
TSMC
0.15um Logic Low Voltage 1P7M 1.2V / 3.3V AI

FIG. 5A

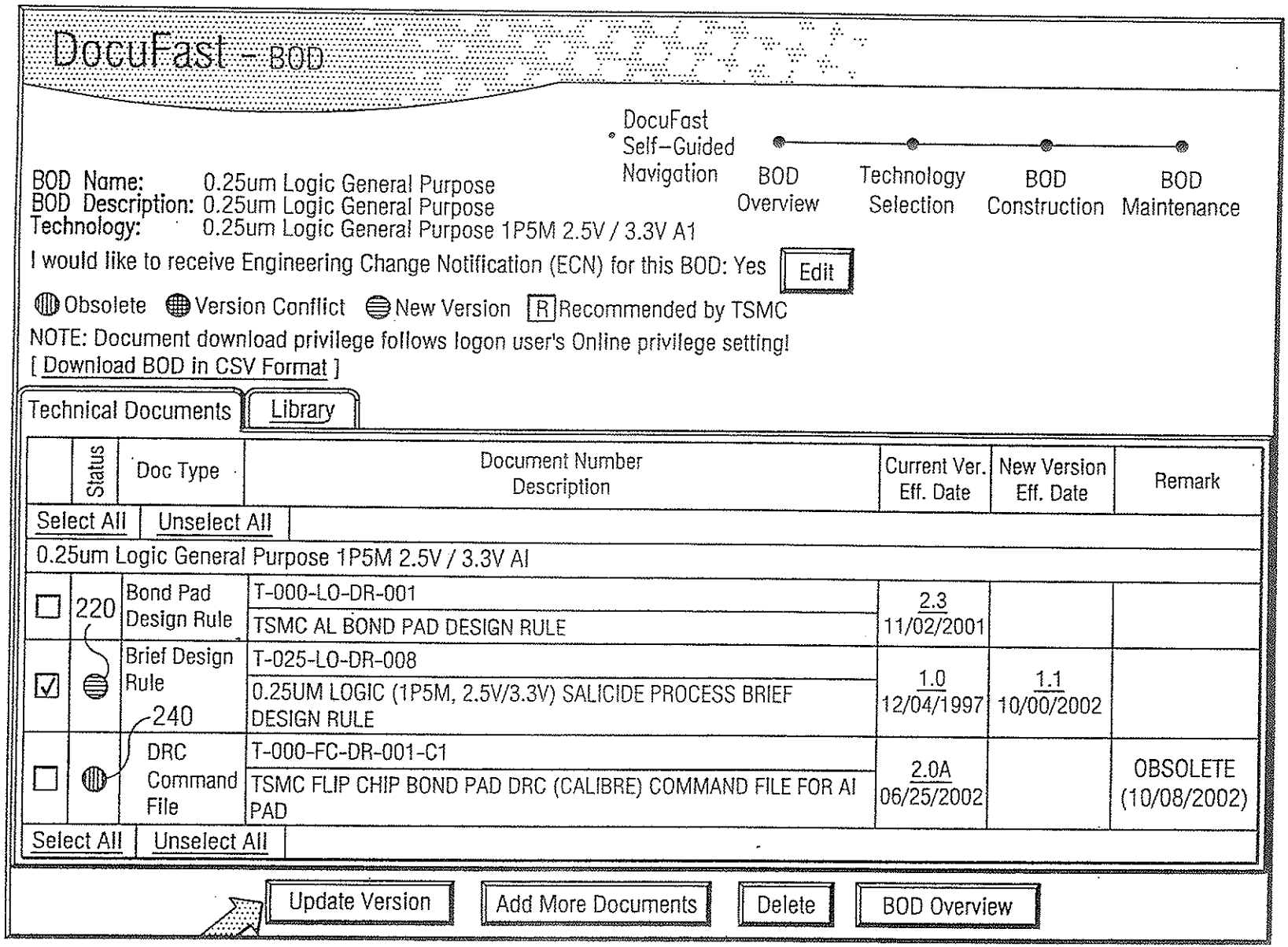

DocuFast - BOD
DocuFast Self-Guided Navigation
BOD Overview
Technology Selection
BOD Construction
BOD Maintenance
BOD Name: 0.25um Logic General Purpose
BOD Description: 0.25um Logic General Purpose
Technology: 0.25um Logic General Purpose 1P5M 2.5V / 3.3V A1
I would like to receive Engineering Change Notification (ECN) for this BOD: Yes
Edit
Obsolete
Version Conflict
New Version
R Recommended by TSMC
NOTE: Document download privilege follows logon user's Online privilege setting!
[Download BOD in CSV Format]
Technical Documents
Library
Status
Doc Type
Document Number
Description
Current Ver. Eff. Date
New Version Eff. Date
Remark
Select All
Unselect All
0.25um Logic General Purpose 1P5M 2.5V / 3.3V Al
220
Bond Pad Design Rule
T-000-LO-DR-001
TSMC AL BOND PAD DESIGN RULE
2.3
11/02/2001
Brief Design Rule
T-025-LO-DR-008
0.25UM LOGIC (1P5M, 2.5V/3.3V) SALICIDE PROCESS BRIEF DESIGN RULE
1.0
12/04/1997
1.1
10/00/2002
240
DRC Command File
T-000-FC-DR-001-C1
TSMC FLIP CHIP BOND PAD DRC (CALIBRE) COMMAND FILE FOR Al PAD
2.0A
06/25/2002
OBSOLETE (10/08/2002)
Select All
Unselect All
Update Version
Add More Documents
Delete
BOD Overview

FIG. 5B

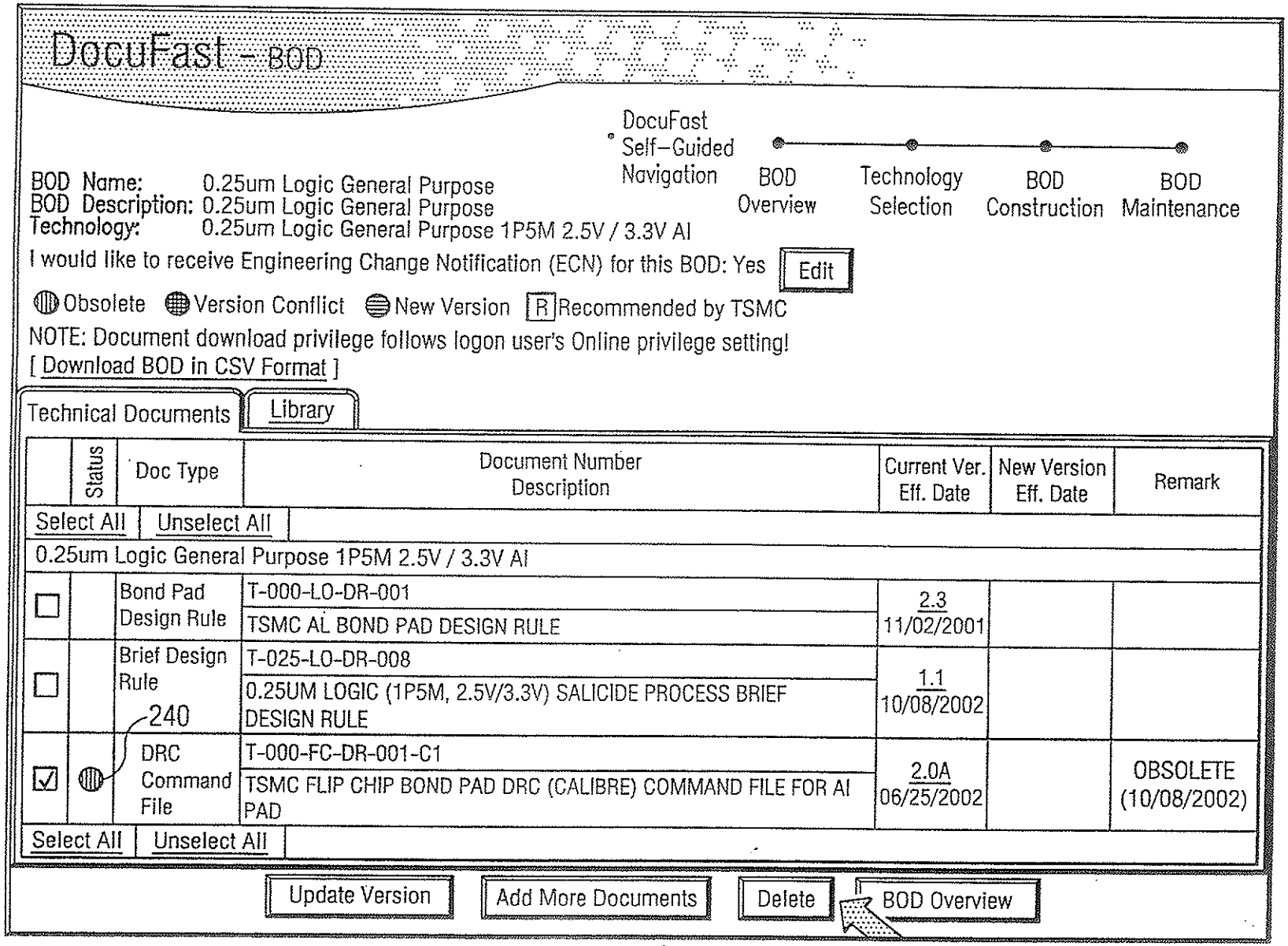
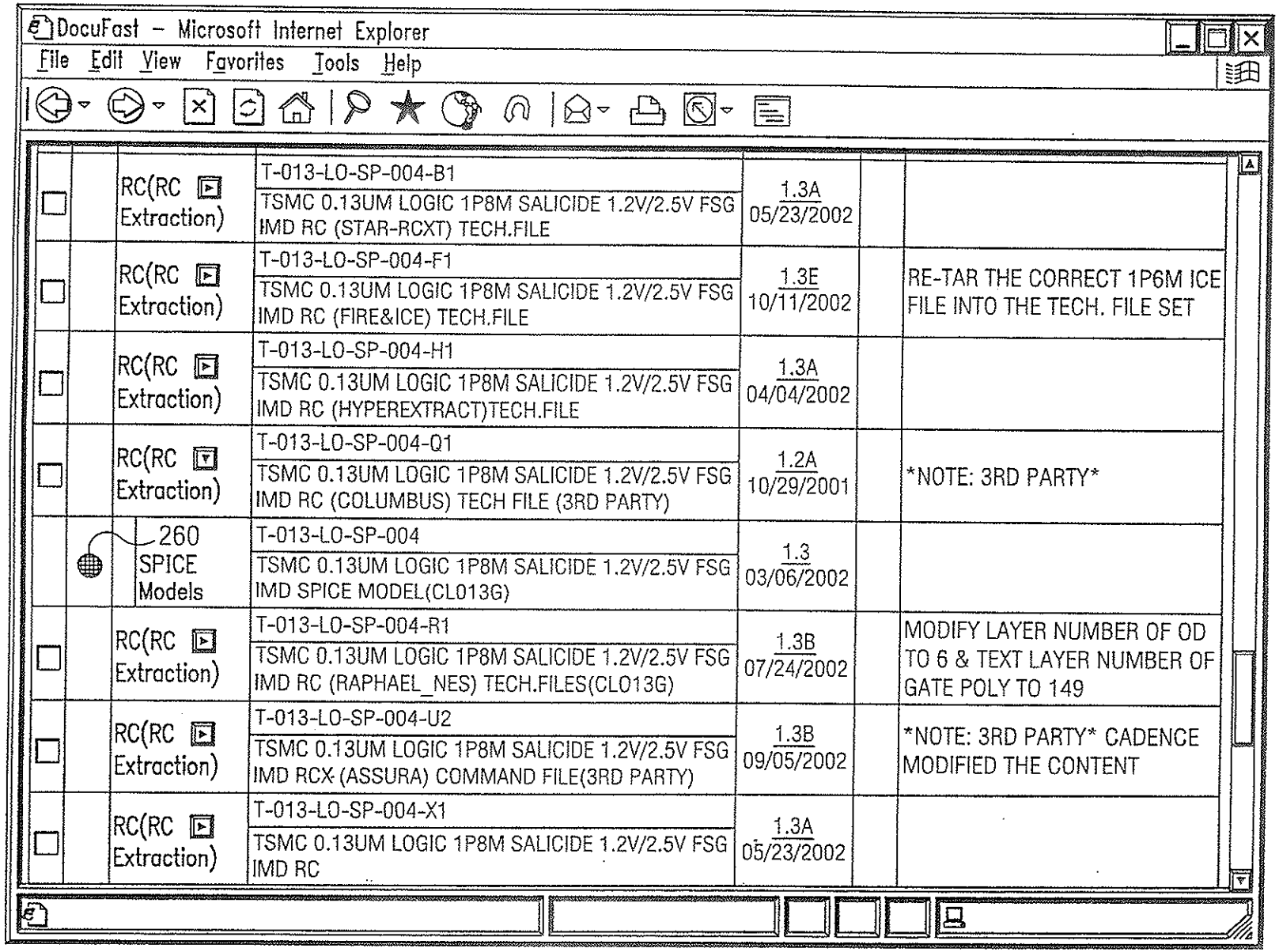

DocuFast – BOD
DocuFast Self-Guided Navigation
BOD Overview
Technology Selection
BOD Construction
BOD Maintenance
BOD Name: 0.25um Logic General Purpose
BOD Description: 0.25um Logic General Purpose
Technology: 0.25um Logic General Purpose 1P5M 2.5V / 3.3V Al
I would like to receive Engineering Change Notification (ECN) for this BOD: Yes
Edit
Obsolete
Version Conflict
New Version
R Recommended by TSMC
NOTE: Document download privilege follows logon user's Online privilege setting!
[Download BOD in CSV Format]
Technical Documents
Library
Status
Doc Type
Document Number Description
Current Ver. Eff. Date
New Version Eff. Date
Remark
Select All
Unselect All
0.25um Logic General Purpose 1P5M 2.5V / 3.3V Al
Bond Pad Design Rule
T-000-LO-DR-001
TSMC AL BOND PAD DESIGN RULE
2.3
11/02/2001
Brief Design Rule
T-025-LO-DR-008
0.25UM LOGIC (1P5M, 2.5V/3.3V) SALICIDE PROCESS BRIEF DESIGN RULE
1.1
10/08/2002
240
DRC Command File
T-000-FC-DR-001-C1
TSMC FLIP CHIP BOND PAD DRC (CALIBRE) COMMAND FILE FOR Al PAD
2.0A
06/25/2002
OBSOLETE (10/08/2002)
Select All
Unselect All
Update Version
Add More Documents
Delete
BOD Overview

FIG. 5C



☐		RC(RC Extraction)	T-013-LO-SP-004-B1 TSMC 0.13UM LOGIC 1P8M SALICIDE 1.2V/2.5V FSG IMD RC (STAR-RCXT) TECH.FILE	1.3A 05/23/2002		
☐		RC(RC Extraction)	T-013-LO-SP-004-F1 TSMC 0.13UM LOGIC 1P8M SALICIDE 1.2V/2.5V FSG IMD RC (FIRE&ICE) TECH.FILE	1.3E 10/11/2002		RE-TAR THE CORRECT 1P6M ICE FILE INTO THE TECH. FILE SET
☐		RC(RC Extraction)	T-013-LO-SP-004-H1 TSMC 0.13UM LOGIC 1P8M SALICIDE 1.2V/2.5V FSG IMD RC (HYPEREXTRACT)TECH.FILE	1.3A 04/04/2002		
☐		RC(RC Extraction)	T-013-LO-SP-004-Q1 TSMC 0.13UM LOGIC 1P8M SALICIDE 1.2V/2.5V FSG IMD RC (COLUMBUS) TECH FILE (3RD PARTY)	1.2A 10/29/2001		*NOTE: 3RD PARTY*
		260 SPICE Models	T-013-LO-SP-004 TSMC 0.13UM LOGIC 1P8M SALICIDE 1.2V/2.5V FSG IMD SPICE MODEL(CL013G)	1.3 03/06/2002		
☐		RC(RC Extraction)	T-013-LO-SP-004-R1 TSMC 0.13UM LOGIC 1P8M SALICIDE 1.2V/2.5V FSG IMD RC (RAPHAEL_NES) TECH.FILES(CL013G)	1.3B 07/24/2002		MODIFY LAYER NUMBER OF OD TO 6 & TEXT LAYER NUMBER OF GATE POLY TO 149
☐		RC(RC Extraction)	T-013-LO-SP-004-U2 TSMC 0.13UM LOGIC 1P8M SALICIDE 1.2V/2.5V FSG IMD RCX (ASSURA) COMMAND FILE(3RD PARTY)	1.3B 09/05/2002		*NOTE: 3RD PARTY* CADENCE MODIFIED THE CONTENT
☐		RC(RC Extraction)	T-013-LO-SP-004-X1 TSMC 0.13UM LOGIC 1P8M SALICIDE 1.2V/2.5V FSG IMD RC	1.3A 05/23/2002		

FIG. 5D

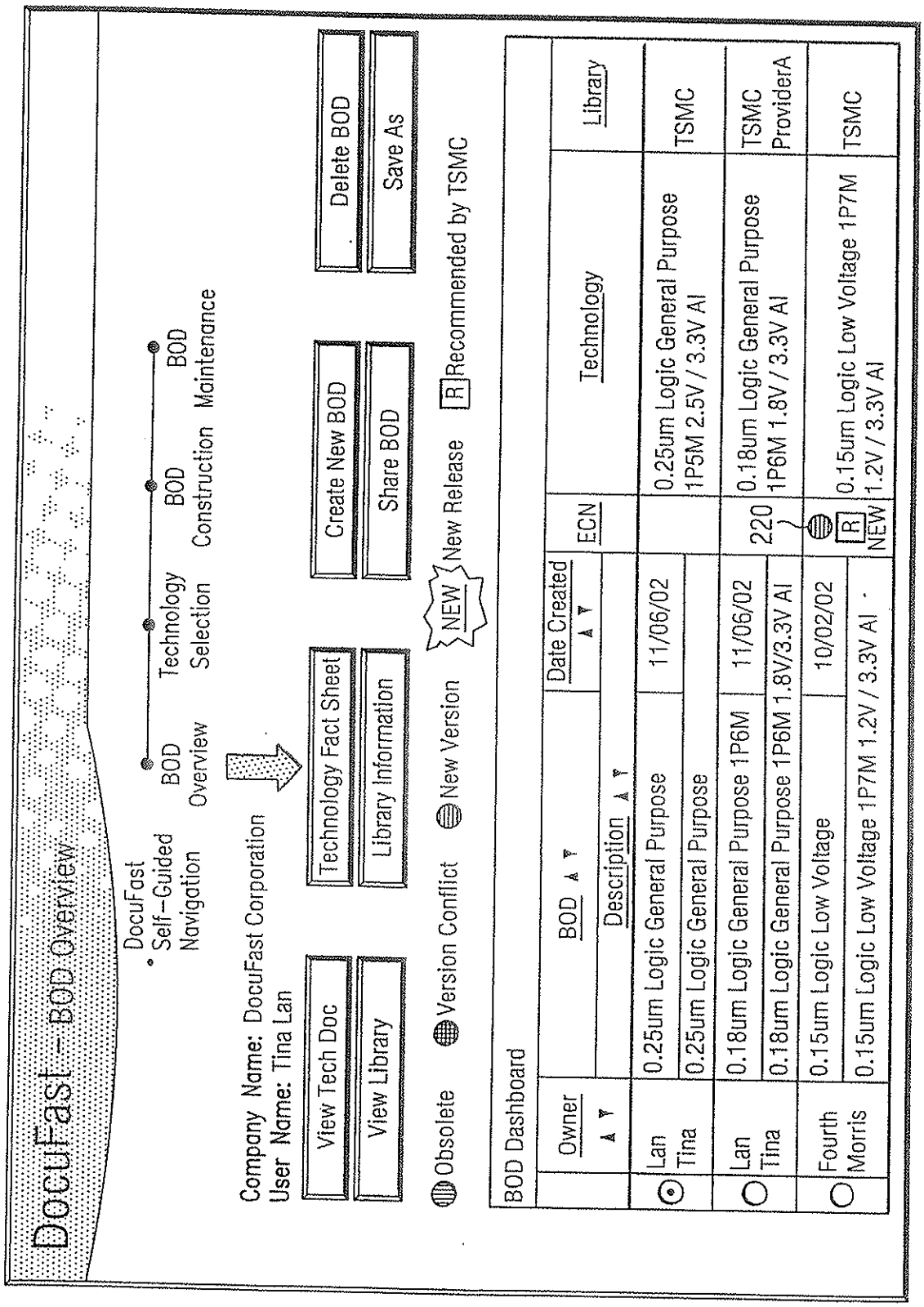

DocuFast – BOD Overview
DocuFast
Self-Guided Navigation
BOD Overview
Technology Selection
BOD Construction
BOD Maintenance
Company Name: DocuFast Corporation
User Name: Tina Lan
View Tech Doc
View Library
Technology Fact Sheet
Library Information
Create New BOD
Share BOD
Delete BOD
Save As
Obsolete
Version Conflict
New Version
NEW
New Release
R Recommended by TSMC
BOD Dashboard
Owner
BOD
Description
Date Created
ECN
Technology
Library
Lan Tina
0.25um Logic General Purpose
11/06/02
0.25um Logic General Purpose
0.25um Logic General Purpose 1P5M 2.5V / 3.3V AI
TSMC
Lan Tina
0.18um Logic General Purpose 1P6M
11/06/02
0.18um Logic General Purpose 1P6M 1.8V/3.3V AI
220
0.18um Logic General Purpose 1P6M 1.8V / 3.3V AI
TSMC ProviderA
Fourth Morris
0.15um Logic Low Voltage
10/02/02
R NEW
0.15um Logic Low Voltage 1P7M 1.2V / 3.3V AI
0.15um Logic Low Voltage 1P7M 1.2V / 3.3V AI
TSMC

FIG. 6A

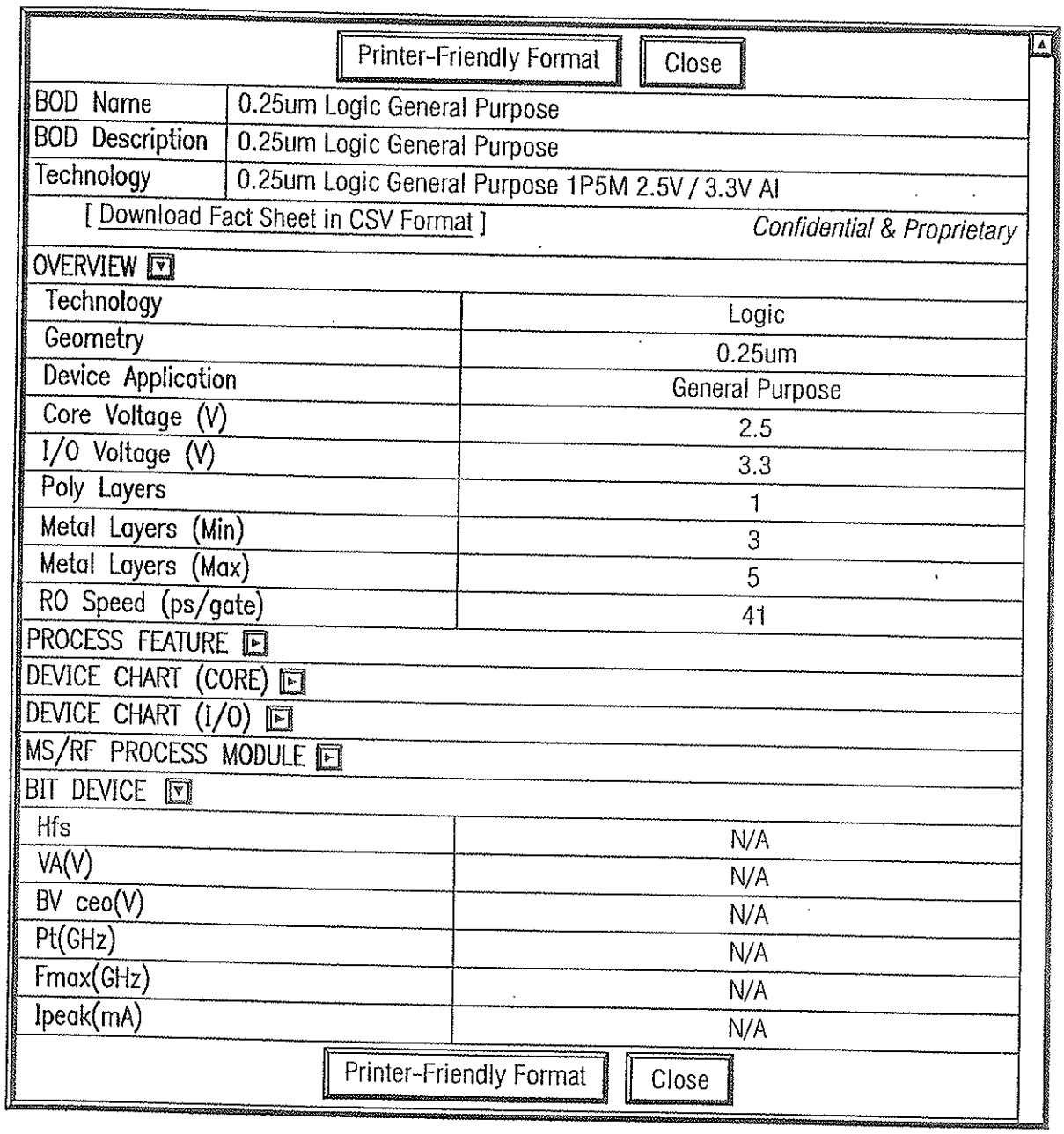

Printer-Friendly Format
Close
BOD Name
0.25um Logic General Purpose
BOD Description
0.25um Logic General Purpose
Technology
0.25um Logic General Purpose 1P5M 2.5V / 3.3V Al
[Download Fact Sheet in CSV Format]
Confidential & Proprietary
OVERVIEW
Technology
Logic
Geometry
0.25um
Device Application
General Purpose
Core Voltage (V)
2.5
I/O Voltage (V)
3.3
Poly Layers
1
Metal Layers (Min)
3
Metal Layers (Max)
5
RO Speed (ps/gate)
41
PROCESS FEATURE
DEVICE CHART (CORE)
DEVICE CHART (I/O)
MS/RF PROCESS MODULE
BIT DEVICE
Hfs
N/A
VA(V)
N/A
BV ceo(V)
N/A
Pt(GHz)
N/A
Fmax(GHz)
N/A
Ipeak(mA)
N/A
Printer-Friendly Format
Close

FIG. 6B

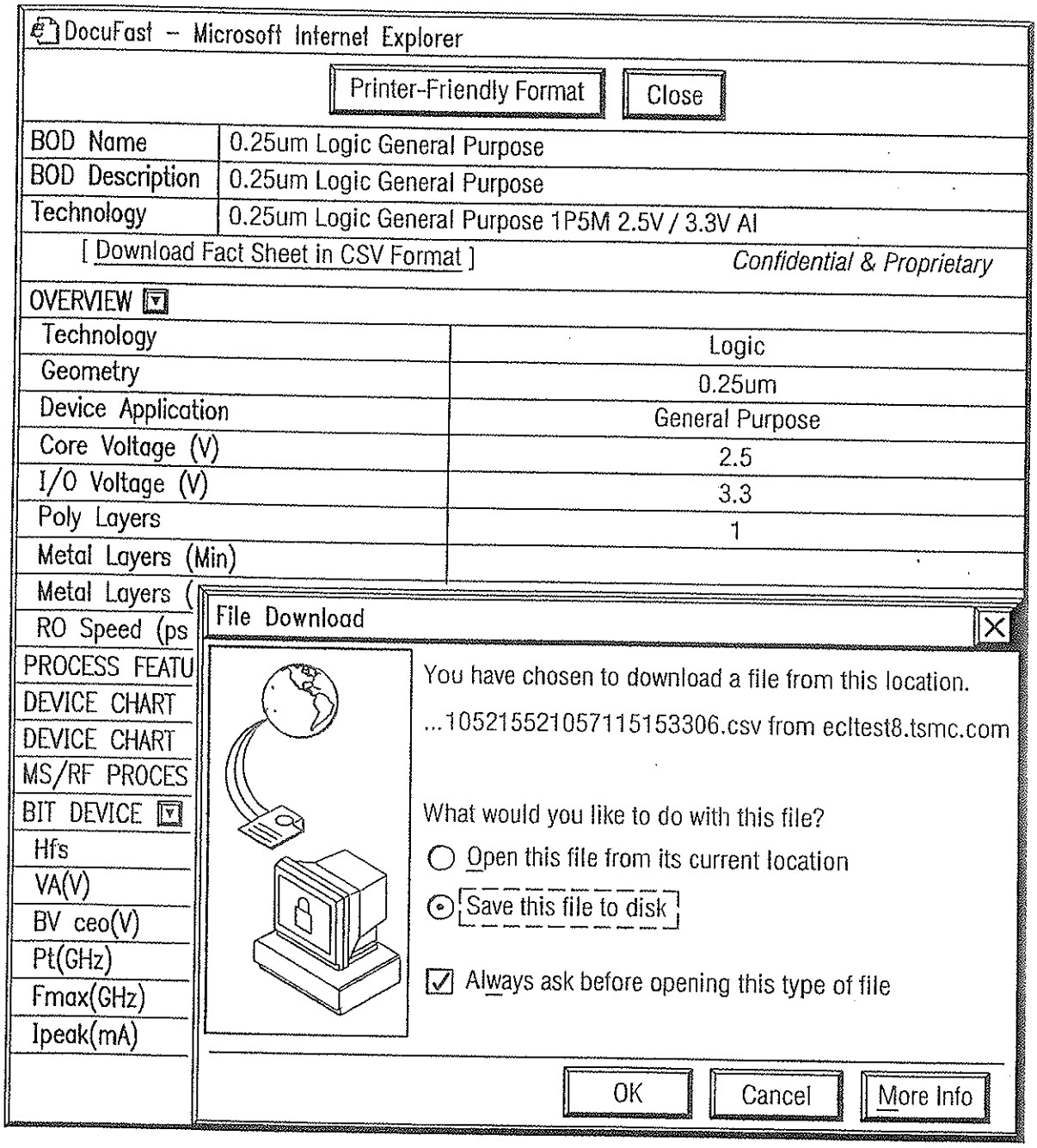

DocuFast – Microsoft Internet Explorer
Printer-Friendly Format
Close
BOD Name
0.25um Logic General Purpose
BOD Description
0.25um Logic General Purpose
Technology
0.25um Logic General Purpose 1P5M 2.5V / 3.3V Al
[Download Fact Sheet in CSV Format]
Confidential & Proprietary
OVERVIEW
Technology
Logic
Geometry
0.25um
Device Application
General Purpose
Core Voltage (V)
2.5
I/O Voltage (V)
3.3
Poly Layers
1
Metal Layers (Min)
Metal Layers (
RO Speed (ps
PROCESS FEATU
DEVICE CHART
DEVICE CHART
MS/RF PROCES
BIT DEVICE
Hfs
VA(V)
BV ceo(V)
Pt(GHz)
Fmax(GHz)
Ipeak(mA)
File Download
You have chosen to download a file from this location.
...10521552105711515306.csv from ecltest8.tsmc.com
What would you like to do with this file?
Open this file from its current location
Save this file to disk
Always ask before opening this type of file
OK
Cancel
More Info

FIG. 6C

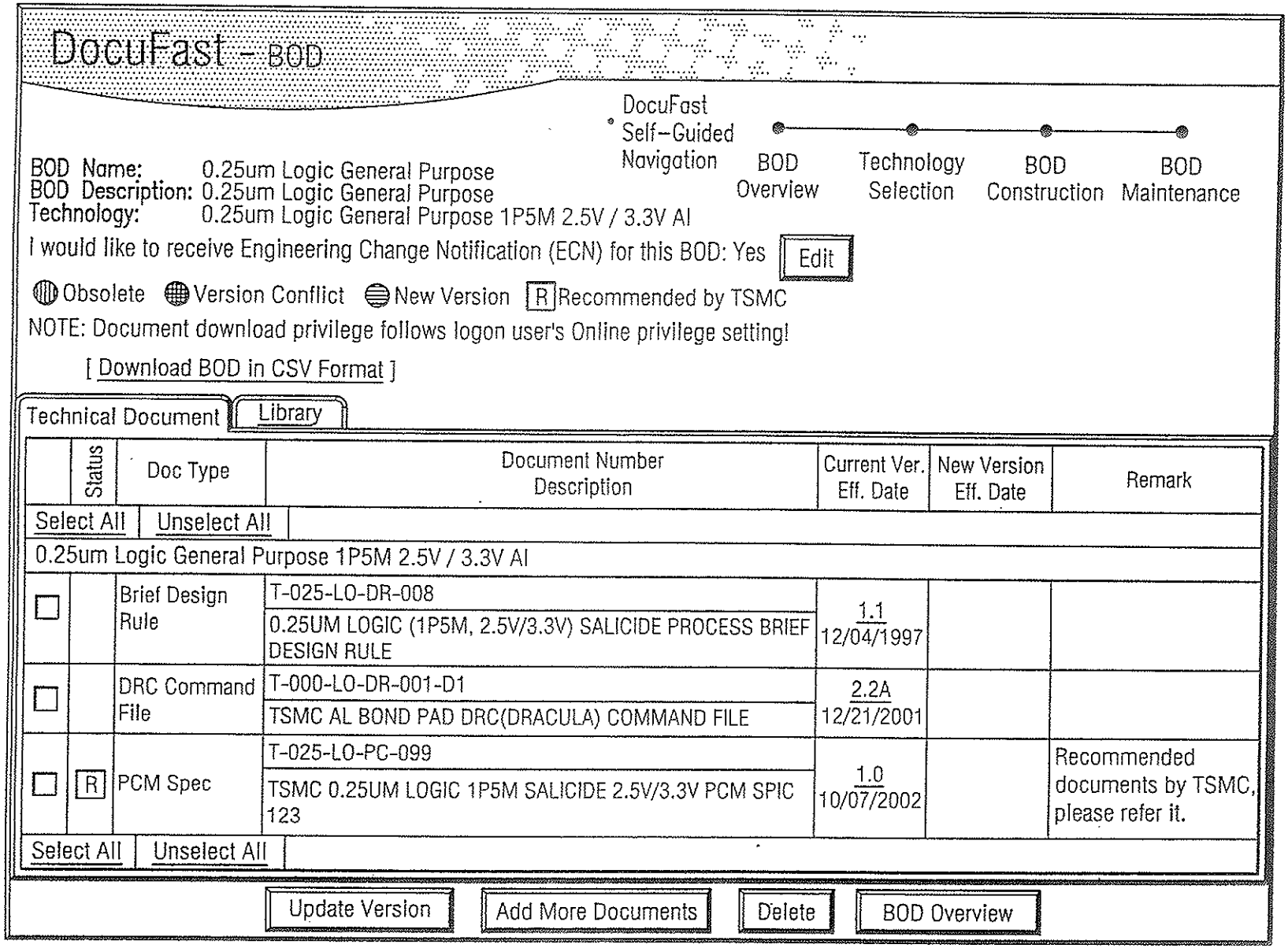

DocuFast - BOD
DocuFast Self-Guided Navigation
BOD Overview
Technology Selection
BOD Construction
BOD Maintenance
BOD Name: 0.25um Logic General Purpose
BOD Description: 0.25um Logic General Purpose
Technology: 0.25um Logic General Purpose 1P5M 2.5V / 3.3V Al
I would like to receive Engineering Change Notification (ECN) for this BOD: Yes
Edit
Obsolete
Version Conflict
New Version
R Recommended by TSMC
NOTE: Document download privilege follows logon user's Online privilege setting!
[Download BOD in CSV Format]
Technical Document
Library
Status
Doc Type
Document Number Description
Current Ver. Eff. Date
New Version Eff. Date
Remark
Select All
Unselect All
0.25um Logic General Purpose 1P5M 2.5V / 3.3V Al
Brief Design Rule
T-025-LO-DR-008
0.25UM LOGIC (1P5M, 2.5V/3.3V) SALICIDE PROCESS BRIEF DESIGN RULE
1.1
12/04/1997
DRC Command File
T-000-LO-DR-001-D1
TSMC AL BOND PAD DRC(DRACULA) COMMAND FILE
2.2A
12/21/2001
R
PCM Spec
T-025-LO-PC-099
TSMC 0.25UM LOGIC 1P5M SALICIDE 2.5V/3.3V PCM SPIC 123
1.0
10/07/2002
Recommended documents by TSMC, please refer it.
Select All
Unselect All
Update Version
Add More Documents
Delete
BOD Overview

FIG. 7A

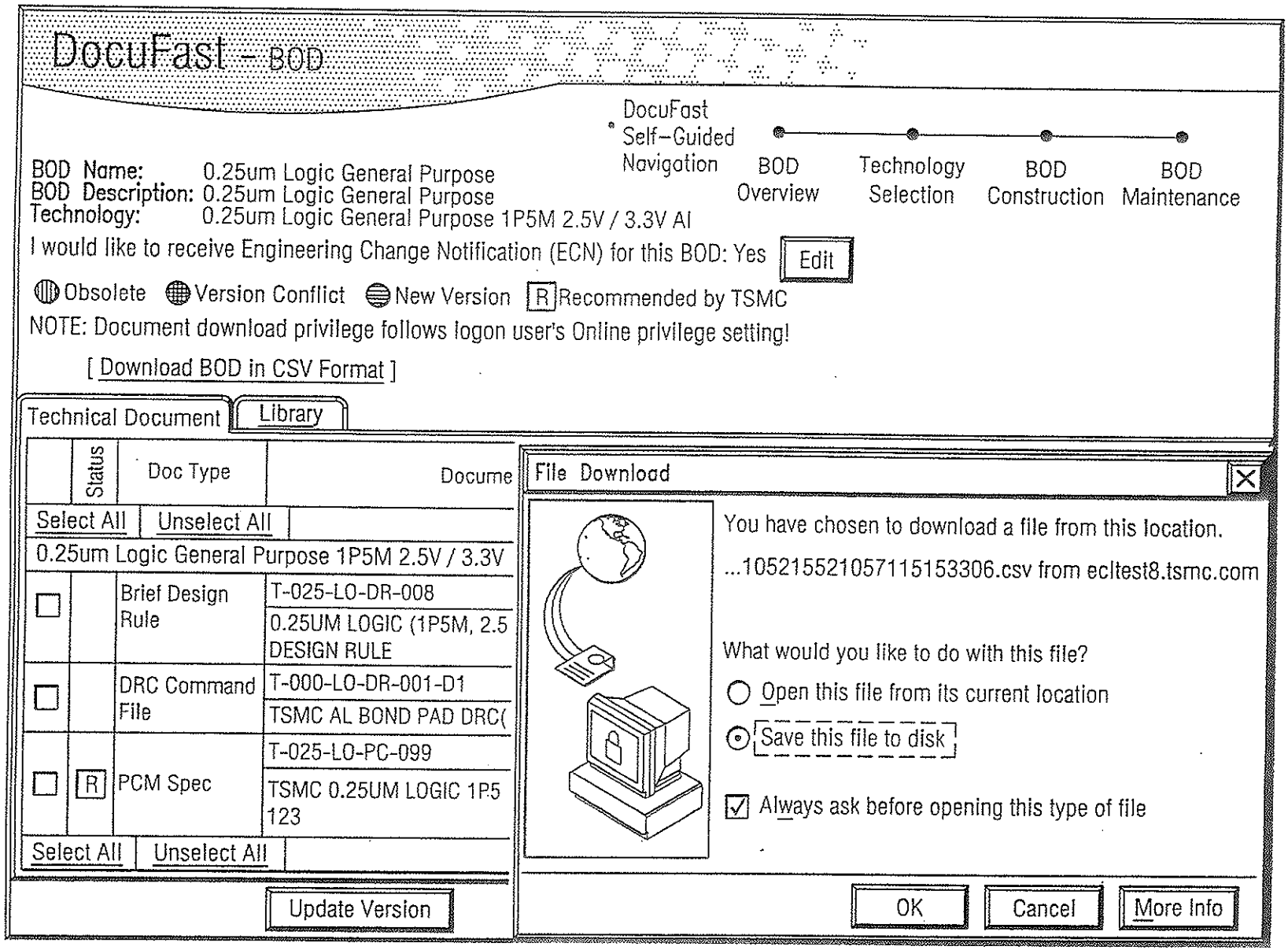

DocuFast - BOD
DocuFast Self-Guided Navigation
BOD Overview
Technology Selection
BOD Construction
BOD Maintenance
BOD Name: 0.25um Logic General Purpose
BOD Description: 0.25um Logic General Purpose
Technology: 0.25um Logic General Purpose 1P5M 2.5V / 3.3V Al
I would like to receive Engineering Change Notification (ECN) for this BOD: Yes
Edit
Obsolete
Version Conflict
New Version
R Recommended by TSMC
NOTE: Document download privilege follows logon user's Online privilege setting!
[Download BOD in CSV Format]
Technical Document
Library
Status
Doc Type
Docume
Select All
Unselect All
0.25um Logic General Purpose 1P5M 2.5V / 3.3V
Brief Design Rule
T-025-LO-DR-008
0.25UM LOGIC (1P5M, 2.5 DESIGN RULE
DRC Command File
T-000-LO-DR-001-D1
TSMC AL BOND PAD DRC(
R
PCM Spec
T-025-LO-PC-099
TSMC 0.25UM LOGIC 1P5 123
Select All
Unselect All
Update Version
File Download
You have chosen to download a file from this location.
...10521552105711515306.csv from ecltest8.tsmc.com
What would you like to do with this file?
Open this file from its current location
Save this file to disk
Always ask before opening this type of file
OK
Cancel
More Info

FIG. 7B

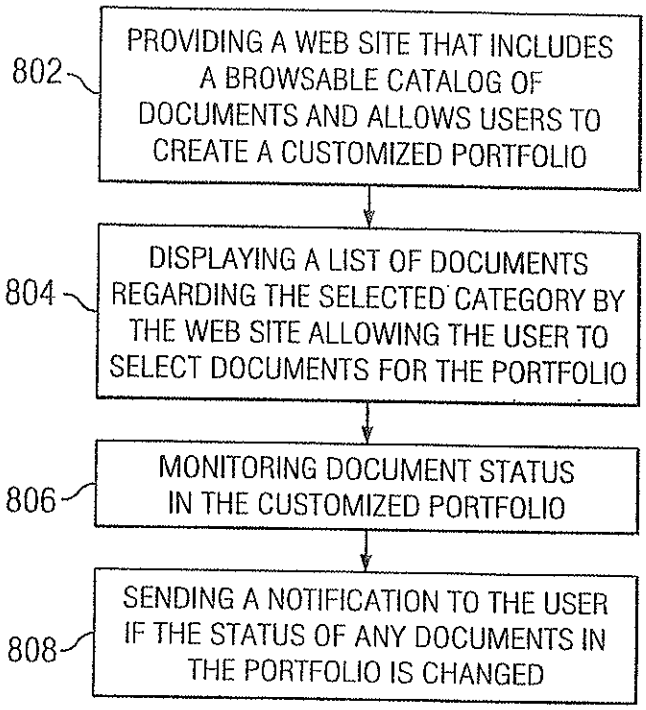

802
PROVIDING A WEB SITE THAT INCLUDES A BROWSABLE CATALOG OF DOCUMENTS AND ALLOWS USERS TO CREATE A CUSTOMIZED PORTFOLIO
804
DISPLAYING A LIST OF DOCUMENTS REGARDING THE SELECTED CATEGORY BY THE WEB SITE ALLOWING THE USER TO SELECT DOCUMENTS FOR THE PORTFOLIO
806
MONITORING DOCUMENT STATUS IN THE CUSTOMIZED PORTFOLIO
808
SENDING A NOTIFICATION TO THE USER IF THE STATUS OF ANY DOCUMENTS IN THE PORTFOLIO IS CHANGED

FIG. 8

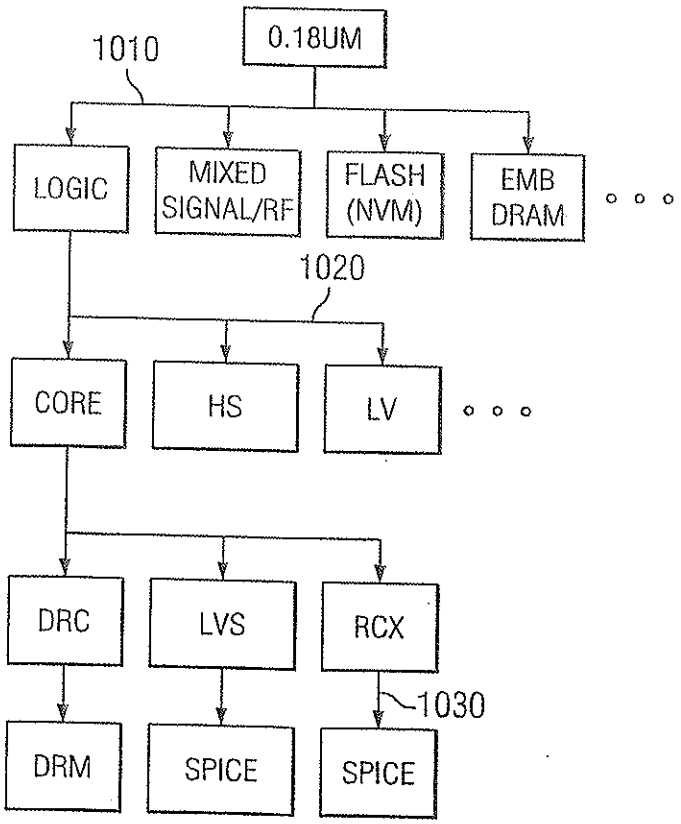

1010
0.18UM
LOGIC
MIXED SIGNAL/RF
FLASH (NVM)
EMB DRAM
1020
CORE
HS
LV
DRC
LVS
RCX
1030
DRM
SPICE
SPICE

FIG. 10

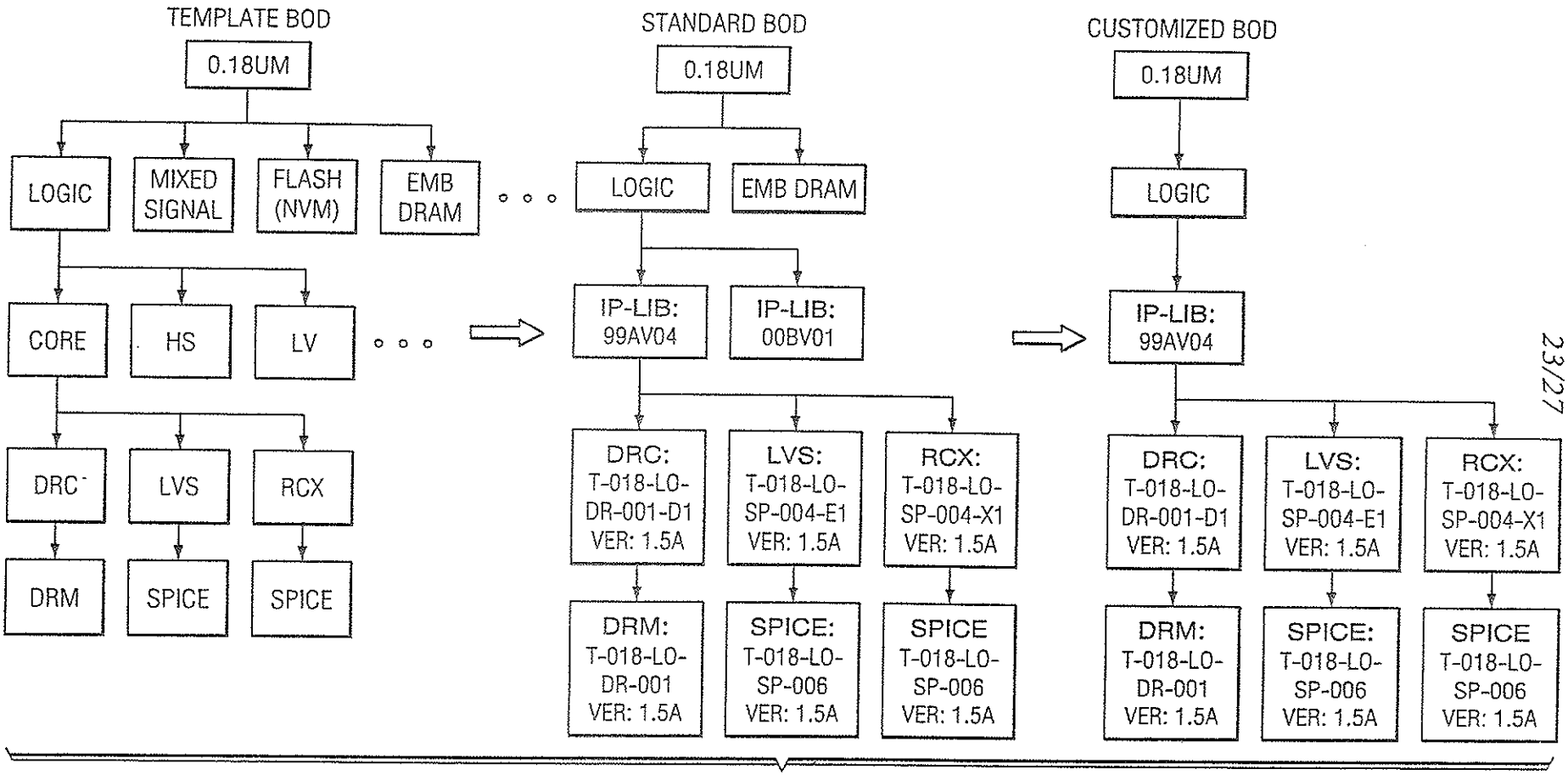

TEMPLATE BOD
0.18UM
LOGIC
MIXED SIGNAL
FLASH (NVM)
EMB DRAM
CORE
HS
LV
DRC
LVS
RCX
DRM
SPICE
SPICE
STANDARD BOD
0.18UM
LOGIC
EMB DRAM
IP-LIB: 99AV04
IP-LIB: 00BV01
DRC: T-018-LO-DR-001-D1 VER: 1.5A
LVS: T-018-LO-SP-004-E1 VER: 1.5A
RCX: T-018-LO-SP-004-X1 VER: 1.5A
DRM: T-018-LO-DR-001 VER: 1.5A
SPICE: T-018-LO-SP-006 VER: 1.5A
SPICE T-018-LO-SP-006 VER: 1.5A
CUSTOMIZED BOD
0.18UM
LOGIC
IP-LIB: 99AV04
DRC: T-018-LO-DR-001-D1 VER: 1.5A
LVS: T-018-LO-SP-004-E1 VER: 1.5A
RCX: T-018-LO-SP-004-X1 VER: 1.5A
DRM: T-018-LO-DR-001 VER: 1.5A
SPICE: T-018-LO-SP-006 VER: 1.5A
SPICE T-018-LO-SP-006 VER: 1.5A

FIG. 9

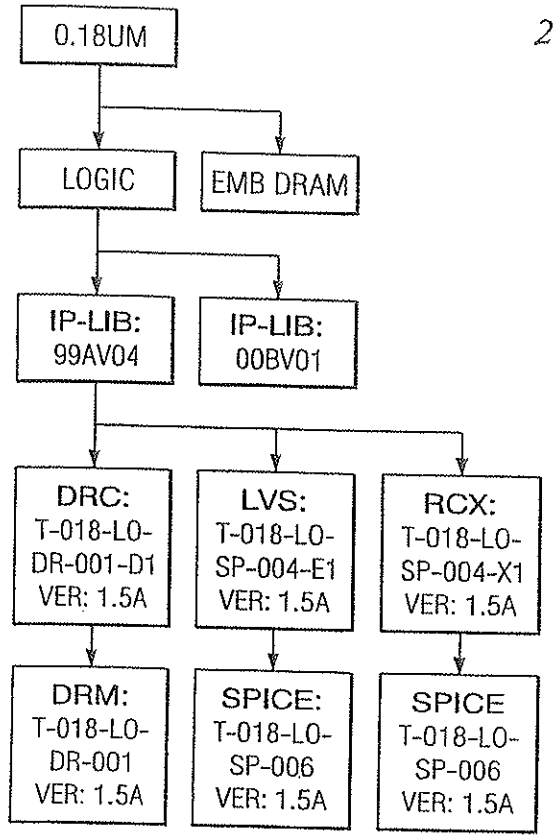


FIG. 11A

STANDARD BOD FOR CUSTOMER SELECTION:

0.18 um:
-LOGIC ☐
--IP-Lib, Ver 99AV04..... ☐
---DRC: T-018-LO-DR-001-D1.. ☐
----DRM: T-018-LO-DR-001..... ☐
---LVS: T-018-LO-SP-004-E1..... ☐
----SPICE: T-018-LO-SP-006..... ☐
---RCX: T-018-LO-SP-004-X1.... ☐
----SPICE: T-018-LO-SP-006..... ☐
--IP-Lib, Ver 00BV01..... ☐
-Emb DRAM ☐
--...
---...

FIG. 11B

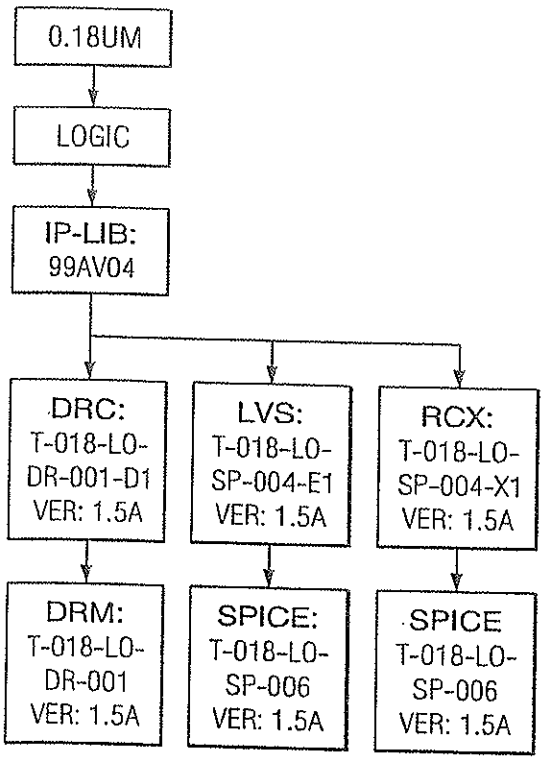


FIG. 12A

STANDARD BOD FOR CUSTOMER SELECTION:

0.18 um:
-LOGIC ☒
--IP-Lib, Ver 99AV04..... ☒
---DRC: T-018-LO-DR-001-D1.. ☒
----DRM: T-018-LO-DR-001..... ☒
---LVS: T-018-LO-SP-004-E1..... ☒
----SPICE: T-018-LO-SP-006..... ☒
---RCX: T-018-LO-SP-004-X1.... ☒
----SPICE: T-018-LO-SP-006..... ☒
--IP-Lib, Ver 00BV01..... ☐
-Emb DRAM ☐
--...
---...

FIG. 12B

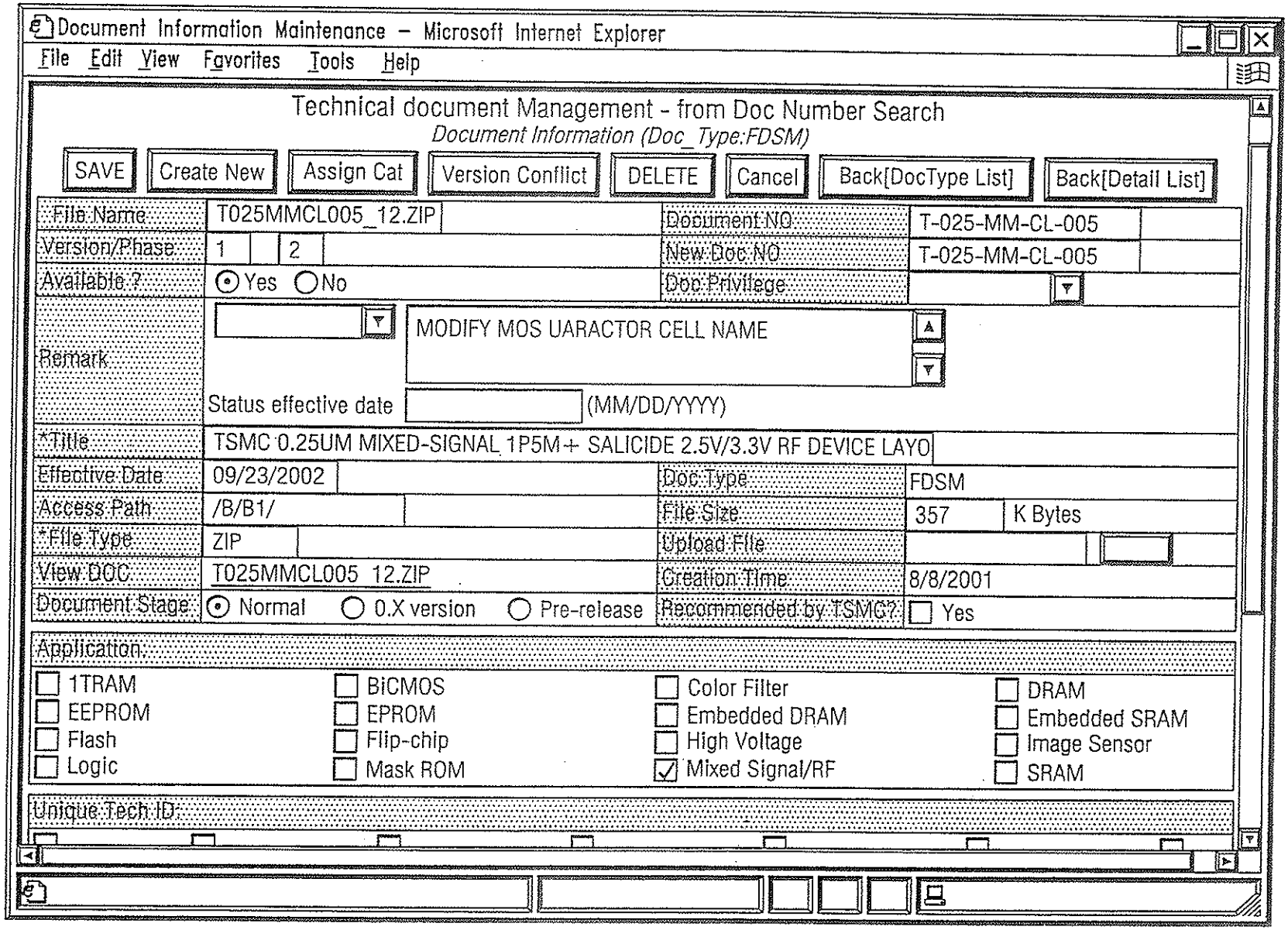

Document Information Maintenance – Microsoft Internet Explorer
File Edit View Favorites Tools Help
Technical document Management - from Doc Number Search
Document Information (Doc_Type:FDSM)
SAVE
Create New
Assign Cat
Version Conflict
DELETE
Cancel
Back[DocType List]
Back[Detail List]
File Name
T025MMCL005_12.ZIP
Document NO
T-025-MM-CL-005
Version/Phase
1
2
New Doc NO
T-025-MM-CL-005
Available ?
Yes
No
Doc Privilege
Remark
MODIFY MOS UARACTOR CELL NAME
Status effective date
(MM/DD/YYYY)
*Title
TSMC 0.25UM MIXED-SIGNAL 1P5M+ SALICIDE 2.5V/3.3V RF DEVICE LAYO
Effective Date
09/23/2002
Doc Type
FDSM
Access Path
/B/B1/
File Size
357
K Bytes
*File Type
ZIP
Upload File
View DOC
T025MMCL005_12.ZIP
Creation Time
8/8/2001
Document Stage
Normal
0.X version
Pre-release
Recommended by TSMC?
Yes
Application
1TRAM
EEPROM
Flash
Logic
BiCMOS
EPROM
Flip-chip
Mask ROM
Color Filter
Embedded DRAM
High Voltage
Mixed Signal/RF
DRAM
Embedded SRAM
Image Sensor
SRAM
Unique Tech ID

FIG. 13

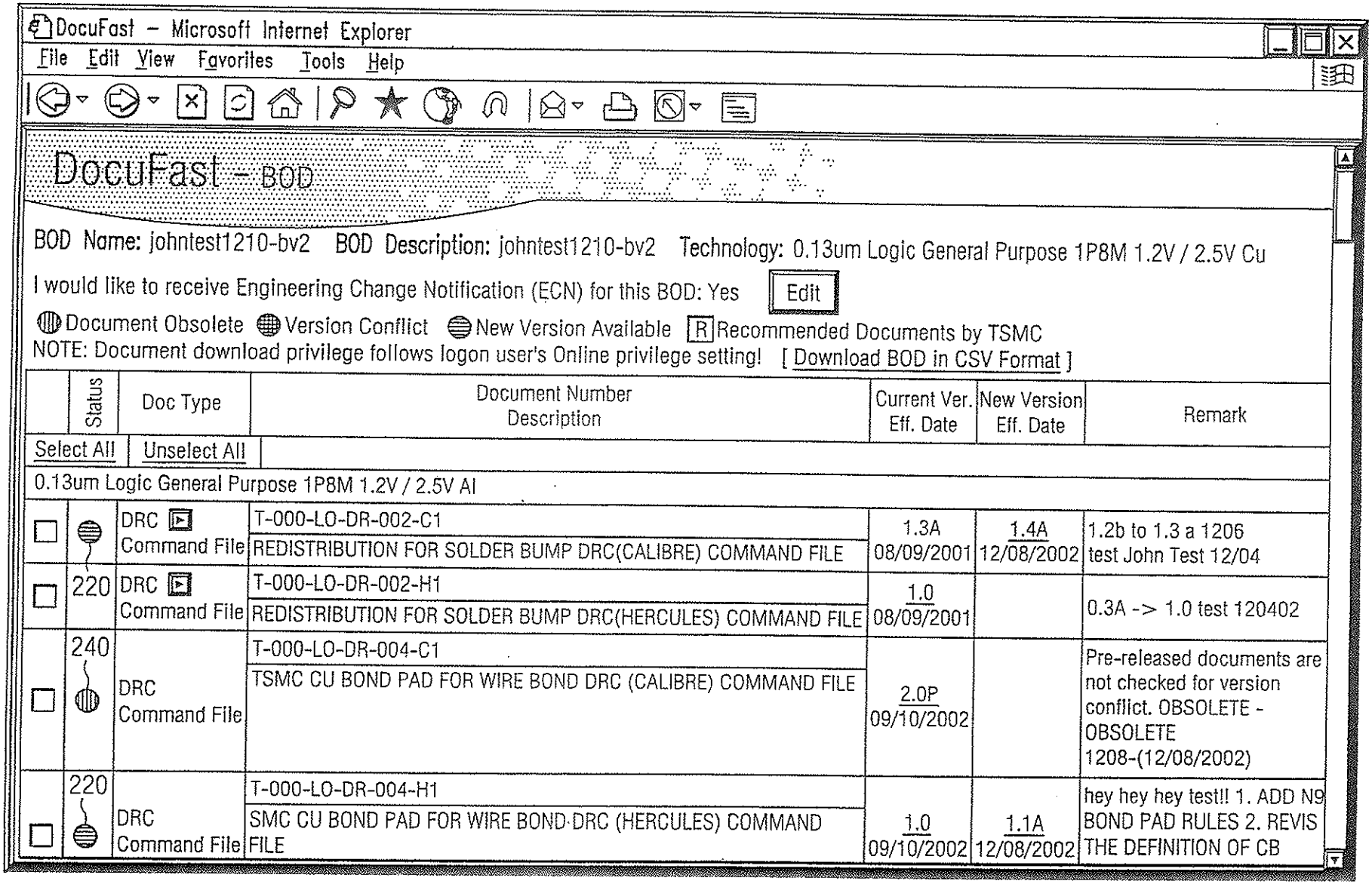

DocuFast – Microsoft Internet Explorer
File Edit View Favorites Tools Help
DocuFast – BOD
BOD Name: johntest1210-bv2 BOD Description: johntest1210-bv2 Technology: 0.13um Logic General Purpose 1P8M 1.2V / 2.5V Cu
I would like to receive Engineering Change Notification (ECN) for this BOD: Yes
Edit
Document Obsolete
Version Conflict
New Version Available
R Recommended Documents by TSMC
NOTE: Document download privilege follows logon user's Online privilege setting!
[Download BOD in CSV Format]
Status
Doc Type
Document Number
Description
Current Ver.
Eff. Date
New Version
Eff. Date
Remark
Select All
Unselect All
0.13um Logic General Purpose 1P8M 1.2V / 2.5V Al
DRC Command File
T-000-LO-DR-002-C1
REDISTRIBUTION FOR SOLDER BUMP DRC(CALIBRE) COMMAND FILE
1.3A
08/09/2001
1.4A
12/08/2002
1.2b to 1.3 a 1206
test John Test 12/04
220
DRC Command File
T-000-LO-DR-002-H1
REDISTRIBUTION FOR SOLDER BUMP DRC(HERCULES) COMMAND FILE
1.0
08/09/2001
0.3A -> 1.0 test 120402
240
DRC Command File
T-000-LO-DR-004-C1
TSMC CU BOND PAD FOR WIRE BOND DRC (CALIBRE) COMMAND FILE
2.0P
09/10/2002
Pre-released documents are not checked for version conflict. OBSOLETE - OBSOLETE 1208-(12/08/2002)
220
DRC Command File
T-000-LO-DR-004-H1
SMC CU BOND PAD FOR WIRE BOND DRC (HERCULES) COMMAND FILE
1.0
09/10/2002
1.1A
12/08/2002
hey hey hey test!! 1. ADD N9 BOND PAD RULES 2. REVIS THE DEFINITION OF CB

FIG. 14A

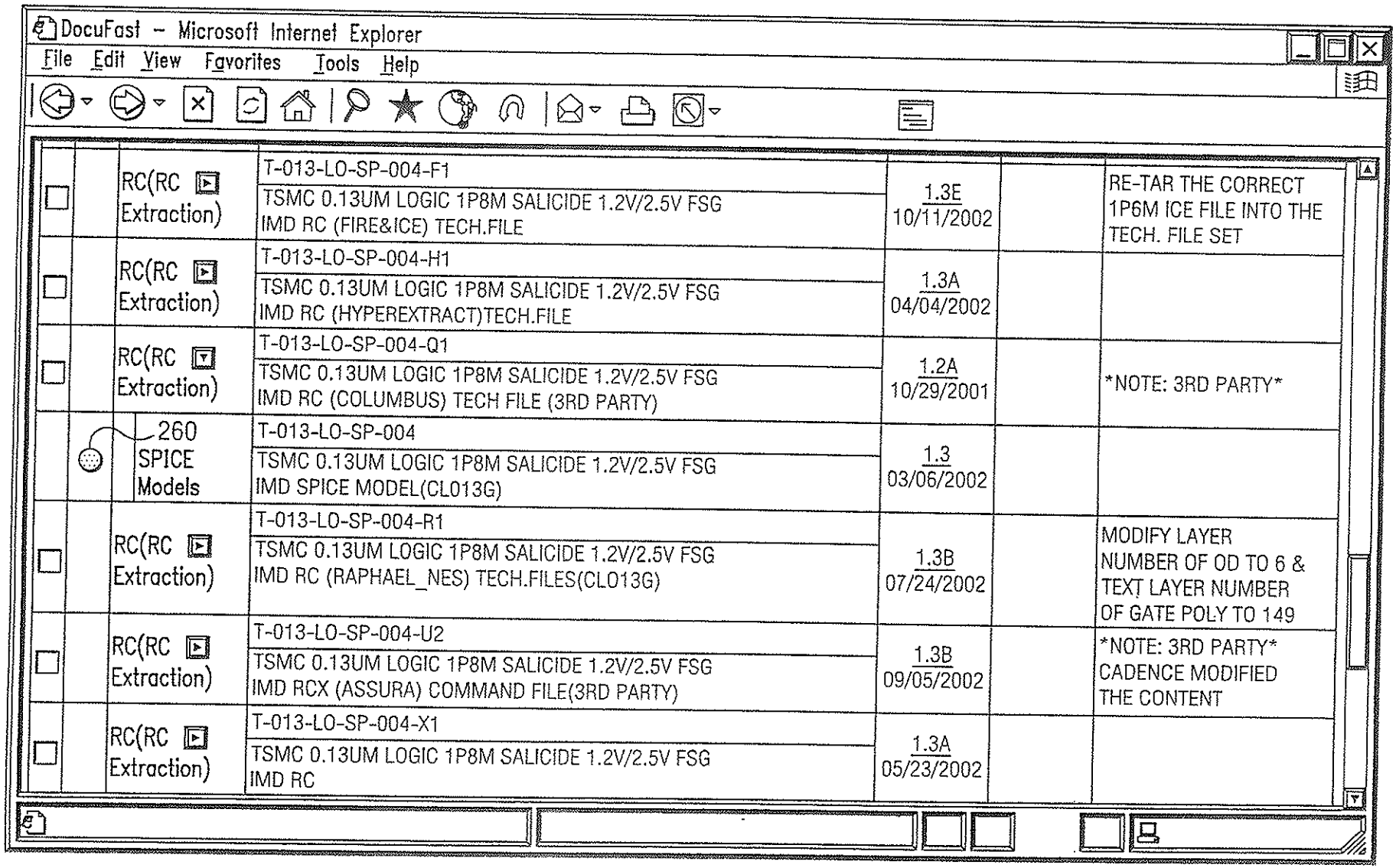

DocuFast – Microsoft Internet Explorer
File Edit View Favorites Tools Help
RC(RC Extraction)
T-013-LO-SP-004-F1
TSMC 0.13UM LOGIC 1P8M SALICIDE 1.2V/2.5V FSG
IMD RC (FIRE&ICE) TECH.FILE
1.3E
10/11/2002
RE-TAR THE CORRECT 1P6M ICE FILE INTO THE TECH. FILE SET
RC(RC Extraction)
T-013-LO-SP-004-H1
TSMC 0.13UM LOGIC 1P8M SALICIDE 1.2V/2.5V FSG
IMD RC (HYPEREXTRACT)TECH.FILE
1.3A
04/04/2002
RC(RC Extraction)
T-013-LO-SP-004-Q1
TSMC 0.13UM LOGIC 1P8M SALICIDE 1.2V/2.5V FSG
IMD RC (COLUMBUS) TECH FILE (3RD PARTY)
1.2A
10/29/2001
NOTE: 3RD PARTY
260 SPICE Models
T-013-LO-SP-004
TSMC 0.13UM LOGIC 1P8M SALICIDE 1.2V/2.5V FSG
IMD SPICE MODEL(CL013G)
1.3
03/06/2002
RC(RC Extraction)
T-013-LO-SP-004-R1
TSMC 0.13UM LOGIC 1P8M SALICIDE 1.2V/2.5V FSG
IMD RC (RAPHAEL_NES) TECH.FILES(CL013G)
1.3B
07/24/2002
MODIFY LAYER NUMBER OF OD TO 6 & TEXT LAYER NUMBER OF GATE POLY TO 149
RC(RC Extraction)
T-013-LO-SP-004-U2
TSMC 0.13UM LOGIC 1P8M SALICIDE 1.2V/2.5V FSG
IMD RCX (ASSURA) COMMAND FILE(3RD PARTY)
1.3B
09/05/2002
NOTE: 3RD PARTY CADENCE MODIFIED THE CONTENT
RC(RC Extraction)
T-013-LO-SP-004-X1
TSMC 0.13UM LOGIC 1P8M SALICIDE 1.2V/2.5V FSG
IMD RC
1.3A
05/23/2002

FIG. 14B