Document Information

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|  | | | | | | | |

OVERVIEW:

Over all users take three steps to execute the ESCM New Buy process.

**Export** – SPO process in which an asset manager indicates a part requires a buy.

**Review and Edit** – Asset manager form will be available to review parts, modify quantities to be ordered, and add notes.

**Approve or Reject** – Approvals will be executed on two forms. Asset managers will use the asset manager form for approvals. Review board users will use the review board form for approval

Once orders have been through the entire process above and have been given an appropriate CCN they are to gold.

The field Activity\_Status in ESCM.ESCM\_New\_Buy\_Order is used to manage the Review, Edit, and Approve process. Status values are set as described below.

**Acceptance –** Multistep process with approvals from Asset Manager and Review Board

First Status - Awaiting Asset Manager Review

* An asset manager marks some parts for export in SPO (SPO Request) and they will show on the exported Tab.
* About every five minutes SPO is checked for parts marked as exported. Requests are populated to the ESCM database (escm\_new\_buy\_reqeust and escm\_newbuy\_order). SPO requests can be split across Program Codes (CLS) and or spread over several delivery dates.
* Once a SPO request is in ESCM an asset manager can spread the order over several delivery dates and modify the quantity ordered. When the delivery date and quantities are set the asset manager can mark the order records as ready for review.

Second Status - Approved by Asset Manager

* When an asset manager approves an order record for CCB review it Gets a status of Approved by Asset Manager. The asset manager can reject the order (see below) or revert it back the status of Awaiting Asset Manager Review with the reset status button.

Third Status - Approved by Review Board

* Here we will assume the review board has evaluated all order records and offered their decision to reject or approve. Any approved order records given a status of Approved by Review Board.
* About every five minutes ESCM is checked for order records that are marked as approved by CCB. These records are written to GOLD. Additionally, these parts are removed from the exported tab in SPO.

**Rejection** – Orders rejected either by an Asset Manager or approver are not removed from ESCM or SPO.

Asset Manager Rejection – An asset manager can choose to reject an order record in ESCM. This action can only take place on records with a status of Awaiting Asset Manager Review or Approved by Asset Manager.

CCB Rejection – ESCM users with the approver role can Approve an order for migration to gold (status = Approved by Review Board) or reject (status = Rejected by Review Board ) and order approved by an asset manager.

New buy data is managed in two ESCM tables ESCM.ESCM\_New\_Buy\_Requirement and ESCM.ESCM\_New\_Buy\_Order. They are as follows:

|  |  |  |
| --- | --- | --- |
| ESCM.ESCM\_New\_Buy\_Requirement | | |
| **COLUMN\_NAME** | **DATA\_TYPE** | |
| INTERNAL\_ORDER\_NO | | NUMBER(10,0) |
| PROGRAM\_CODE | | VARCHAR2(3 BYTE) |
| SPO\_REQUEST\_ID | | NUMBER(10,0) |
| PART\_NO | | VARCHAR2(32 BYTE) |
| REQUEST\_DUE\_DATE | | DATE |
| ITEM\_COST | | NUMBER |
| IS\_REPARABLE | | VARCHAR2(1 BYTE) |
| SPO\_EXPORT\_DATE | | DATE |
| SPO\_EXPORT\_USER | | VARCHAR2(20 BYTE) |
| REQUIREMENT\_QUANTITY | | NUMBER(10,0) |
| ASSET\_MANAGER\_REMARK | | VARCHAR2(200 BYTE) |
| ASSET\_MANAGER\_REMARK\_DATE | | DATE |
| ASSET\_MANAGER\_REMARK\_USER | | VARCHAR2(20 BYTE) |
| PBL\_METRIC\_IND | | VARCHAR2(1 BYTE) |
| VPV\_METRIC\_IND | | VARCHAR2(1 BYTE) |
| ASSET\_MANAGER\_ID | | VARCHAR2(20 BYTE) |
| LAST\_UPDATE\_DATE | | DATE |
| LAST\_UPDATE\_USER | | VARCHAR2(20 BYTE) |
| RECORD\_CREATE\_DATE | | DATE |
| RECORD\_CREATE\_USER | | VARCHAR2(20 BYTE) |

|  |  |
| --- | --- |
| ESCM.ESCM\_New\_Buy\_Requirement | |
| ***COLUMN\_NAME*** | ***DATA\_TYPE*** |
| INTERNAL\_ORDER\_NO | NUMBER(10,0) |
| REQUIREMENT\_SCHEDULE\_NO | NUMBER(10,0) |
| ORDER\_NO | VARCHAR2(20 BYTE) |
| PART\_NO | VARCHAR2(32 BYTE) |
| ORDER\_QUANTITY | NUMBER(10,0) |
| DUE\_DATE | DATE |
| ACTIVITY\_STATUS | VARCHAR2(30 BYTE) |
| VALIDATION\_STATUS | VARCHAR2(1 BYTE) |
| SEG\_CODE | VARCHAR2(25 BYTE) |
| COST\_CHARGE\_NUMBER | VARCHAR2(15 BYTE) |
| ASSET\_MANAGER\_REMARK\_DATE | DATE |
| ASSET\_MANAGER\_REMARK | VARCHAR2(200 BYTE) |
| REVIEW\_BOARD\_REMARK\_DATE | DATE |
| REVIEW\_BOARD\_REMARK | VARCHAR2(200 BYTE) |
| BATCH\_ID | NUMBER(10,0) |
| SENT\_TO\_EXECUTION\_DATE | DATE |
| LAST\_UPDATE\_DATE | DATE |
| LAST\_UPDATE\_USER | VARCHAR2(20 BYTE) |
| RECORD\_CREATE\_DATE | DATE |
| RECORD\_CREATE\_USER | VARCHAR2(20 BYTE) |
| ASSET\_MANAGER\_REMARK\_USER | VARCHAR2(20 BYTE) |
| REVIEW\_BOARD\_REMARK\_USER | VARCHAR2(20 BYTE) |
| PRIORITY | NUMBER(2,0) |
| APPROVED\_BY\_USER | VARCHAR2(20 BYTE) |
| APPROVED\_BY\_DATE | DATE |

# Forms

UI forms are split out by user type (Asset Manager and Reviewer). Asset Managers need to review exports, modify quantity, make notes, and approve for review board. Review Board users need to review quantities and approve for GOLD. Forms are further delineated by data type (CLS and OVHL). At the form level this will mean two Asset Manager forms and two Review Board forms.

Root Form (Mostly master page stuff)

Shall show some sort of splash screen

Shall offer a menu as described below

|  |  |
| --- | --- |
| Menu Item Name | Action |
| New Buy Activity - PBL/CLS | Load CLS Asset Manager form |
| New Buy CCB - PBL/CLS | Load CLS Review Board form |
| New Buy Asset Manager - CCAD | Load CCADAsset Manager form |
| New Buy ORB - CCAD | Load CCAD Review Board form |

Asset Manager form

CLS

Form shall display the following fields in a grid (or grids)

|  |  |  |  |
| --- | --- | --- | --- |
| Display Name | Column | Editable | Notes |
| SPO User | REQUIREMENT.USER\_NAME | No | Currently on Tab1 |
| Part # | REQUIREMENT.PART\_NO | No | Currently on Tab1 |
| Due Date | REQUIREMENT.REQUEST\_DUE\_DATE | No | Currently on Tab1 |
| Overall Status | Function (See Below) | No | Currently on Tab1 |
| Cost | REQUIREMENT.ITEM\_COST | No | Currently on Tab1 |
| Request ID | REQUIREMENT.REQUEST\_ID | No | Currently on Tab1 |
| Program | Function (See Below) | No | Currently on Tab1 |
| Export Date | REQUIREMENT.SPO\_EXPORT\_DATE | No | Currently on Tab1 |
| Due Date | REQUIREMENT.REQEUST\_DUE\_DATE | No | Currently on Tab1 |
| Cost | ITEM\_COST | No | Currently on Tab1 |
| Site | Function (See Below) | No | Currently on Tab1 |
| Req Schd No | ORDER.REQUIREMENT\_SCHEDULE\_NO | Yes | Currently on Tab2 |
| Due Date | ORDER.DUE\_DATE | Yes | Currently on Tab2 |
| Order Quantity | ORDER.ORDER\_QUANTITY | Yes | Currently on Tab2 |
| Prty | ORDER.PRIORITY | Yes | Currently on Tab2 |
| CCN | ORDER.COST\_CHARGE\_NUMBER | Yes | Currently on Tab2 |
| Order No | ORDER.ORDER\_NO | Yes | Currently on Tab2 |
| Activity Status | ORDER.ACTIVITY\_STATUS | No | Currently on Tab2 |
| SPO Qty | Function (See Below) | No | Currently on Tab2 |
| Order Total | Sum of Order Quantities for current grid | No | Currently on Tab2 |
| Part No | ORDER,PART\_NO | No | Currently on Tab2 |

**Overall Status** is currently calculated as a PLSQL function in an Oracle form

FUNCTION Get\_Status(Internal\_Order\_No\_In IN varchar2) RETURN Varchar2 IS

vStatusIn Varchar2(30);

vRCount Number;

BEGIN

IF Internal\_Order\_No\_In is null then

Return 'NONE';

Else

Select count(Activity\_Status) into vRCount

from (select Activity\_Status, count(Activity\_Status) Cnt\_Of\_Status

from escm.escm\_new\_buy\_order

Where Internal\_Order\_No = Internal\_Order\_No\_In

Group By Activity\_Status

);

If vRcount = 0 then

Return Internal\_Order\_No\_In;

End If;

If vRCount > 1 then

Return 'Various';

Else

select Distinct Activity\_Status

into vStatusIn

from escm.escm\_new\_buy\_order

Where Internal\_Order\_No = Internal\_Order\_No\_In;

Return vStatusIn;

End IF;

End If;

EXCEPTION

WHEN OTHERS THEN

show\_message(SQLERRM, 'ERROR\_ALERT', 'GET\_STATUS');

RAISE;

END;

**Program** is currently calculated as a PLSQL function in an Oracle form

FUNCTION Get\_Program\_Name (Program\_In IN Varchar2) RETURN VARCHAR2 IS

v\_Program\_Name escm.escm\_program\_code.Program\_Name%TYPE;

Begin

IF Program\_In is null then

Return 'NONE';

Else

select distinct substr(Program\_Name,1,4) into v\_Program\_Name from escm.escm\_program\_code

Where program\_code = Program\_In;

Return nvl(v\_Program\_Name,'NONE');

END IF;

EXCEPTION

WHEN OTHERS THEN

show\_message(SQLERRM, 'ERROR\_ALERT', 'GET\_PROGRAM\_NAME');

RAISE;

End;

**Site** is currently calculated as a PLSQL function in an Oracle form

FUNCTION Get\_Site(Part\_IN IN Varchar2) RETURN VARCHAR2 IS

v\_Site\_Name Varchar2(256);

BEGIN

IF Part\_IN is null then

Return 'NONE';

Else

Select purchasing\_site Into v\_Site\_Name from escm.escm\_cbom\_part where

Part\_no = Part\_IN;

Return nvl(v\_Site\_Name,'Not Found');

END IF;

EXCEPTION

WHEN OTHERS THEN

IF SQLERRM LIKE '%01403%' THEN

Return 'None Found';

Else

show\_message(SQLERRM, 'ERROR\_ALERT', 'Get\_Site');

RAISE;

End if;

END;

Form shall provide the following functionality

On load form will be sorted on SPO\_Export\_Date Desc and filtered on the following

**SPO\_Export\_User** = Login User (both values are BEMS ids)

**Program\_Code**<>’DCC’

**SPO\_Export\_Date**>=(Select sysdate-value\_1 from escm.escm\_lookup where category = 'NEWBUY\_CLS\_DAYS')

Shall offer record filters on the following items.

**Asset Manager** = values selected in pop up box. Display names but use BEMS

**Part Number** = values selected in pop up box.

**SPO\_Export\_User** (My Export) = log in user BEMS.

Approve Order

**Call** function escm.escm\_new\_buy.validate\_ccn(i\_ccn VARCHAR2, i\_program\_code VARCHAR2, i\_due\_date DATE)

**If** it returns ‘TRUE’ then set Order.Activity\_Status = ‘Approved by Asset Manager’

**Else** do not change value of Order.Activity\_Status.

Reject Order

**Set** ORDER.Activity\_Status = ‘Rejected by Asset Manager’

Reset Status

**Set** ORDER.Activity\_Status = ‘Awaiting Asset Manager Review’

Add Order records

**Set** REQUIREMENT\_SCHEDULE\_NO = Max (REQUIREMENT\_SCHEDULE\_NO)+1 for current internal order number

**Set** Due\_Date to value in new field (this must be set by user and before CCN can be calculated)

**If** CCN is blank then use escm.escm\_new\_buy.get\_cost\_charge\_number( i\_program\_code VARCHAR2, i\_due\_date DATE) **Else** set ccn to value in field

**If** Priority is blank set to 3 **Else** take value in field

**Set** order number = REQUIREMENT.PROGRAM\_CODE||REQUIREMENT.SPO\_Request\_ID||ORDER. REQUIREMENT\_SCHEDULE\_NO (then new one calculated above)

**Set** Activity\_Status = ‘Awaiting Asset Manager Review’

**Set** Validation\_Status = ‘F’

**Set** Seg\_Code = escm.escm\_new\_buy.get\_seg\_code(i\_program\_code VARCHAR2)

OVHL

Form shall display the following fields in a grid (or grids)

|  |  |  |  |
| --- | --- | --- | --- |
| Display Name | Column | Editable | Notes |
| SPO User | REQUIREMENT.USER\_NAME | No | Currently on Tab1 |
| Part # | REQUIREMENT.PART\_NO | No | Currently on Tab1 |
| Due Date | REQUIREMENT.REQUEST\_DUE\_DATE | No | Currently on Tab1 |
| Overall Status | Function (See Below) | No | Currently on Tab1 |
| Cost | REQUIREMENT.ITEM\_COST | No | Currently on Tab1 |
| Request ID | REQUIREMENT.REQUEST\_ID | No | Currently on Tab1 |
| Program | Function (See Below) | No | Currently on Tab1 |
| Export Date | REQUIREMENT.SPO\_EXPORT\_DATE | No | Currently on Tab1 |
| Due Date | REQUIREMENT.REQEUST\_DUE\_DATE | No | Currently on Tab1 |
| Cost | ITEM\_COST | No | Currently on Tab1 |
| Site | Function (See Below) | No | Currently on Tab1 |
| SPO Notes | Function (See Below) | No | Currently on Tab1 |
| Req Schd No | ORDER.REQUIREMENT\_SCHEDULE\_NO | Yes | Currently on Tab2 |
| Due Date | ORDER.DUE\_DATE | Yes | Currently on Tab2 |
| Order Quantity | ORDER.ORDER\_QUANTITY | Yes | Currently on Tab2 |
| Prty | ORDER.PRIORITY | Yes | Currently on Tab2 |
| CCN | ORDER.COST\_CHARGE\_NUMBER | Yes | Currently on Tab2 |
| Order No | ORDER.ORDER\_NO | Yes | Currently on Tab2 |
| Activity Status | ORDER.ACTIVITY\_STATUS | No | Currently on Tab2 |
| SPO Qty | Function (See Below) | No | Currently on Tab2 |
| Order Total | Sum of Order Quantities for current grid | No | Currently on Tab2 |
| Part No | ORDER,PART\_NO | No | Currently on Tab2 |
| Asset Manager Remark | ORDER.ASSET\_MANAGER\_REMARK | Yes | Currently on Tab2 |
| Review Board Remark | ORDER.REVIEW\_BOARD\_RMARK | No | Currently on Tab2 |

**Overall Status** is currently calculated as a PLSQL function in an Oracle form

FUNCTION Get\_Status(Internal\_Order\_No\_In IN varchar2) RETURN Varchar2 IS

vStatusIn Varchar2(30);

vRCount Number;

BEGIN

IF Internal\_Order\_No\_In is null then

Return 'NONE';

Else

Select count(Activity\_Status) into vRCount

from (select Activity\_Status, count(Activity\_Status) Cnt\_Of\_Status

from escm.escm\_new\_buy\_order

Where Internal\_Order\_No = Internal\_Order\_No\_In

Group By Activity\_Status

);

If vRcount = 0 then

Return Internal\_Order\_No\_In;

End If;

If vRCount > 1 then

Return 'Various';

Else

select Distinct Activity\_Status

into vStatusIn

from escm.escm\_new\_buy\_order

Where Internal\_Order\_No = Internal\_Order\_No\_In;

Return vStatusIn;

End IF;

End If;

EXCEPTION

WHEN OTHERS THEN

show\_message(SQLERRM, 'ERROR\_ALERT', 'GET\_STATUS');

RAISE;

END;

**Program** is currently calculated as a PLSQL function in an Oracle form

FUNCTION Get\_Program\_Name (Program\_In IN Varchar2) RETURN VARCHAR2 IS

v\_Program\_Name escm.escm\_program\_code.Program\_Name%TYPE;

Begin

IF Program\_In is null then

Return 'NONE';

Else

select distinct substr(Program\_Name,1,4) into v\_Program\_Name from escm.escm\_program\_code

Where program\_code = Program\_In;

Return nvl(v\_Program\_Name,'NONE');

END IF;

EXCEPTION

WHEN OTHERS THEN

show\_message(SQLERRM, 'ERROR\_ALERT', 'GET\_PROGRAM\_NAME');

RAISE;

End;

**Site** is currently calculated as a PLSQL function in an Oracle form

FUNCTION Get\_Site(Part\_IN IN Varchar2) RETURN VARCHAR2 IS

v\_Site\_Name Varchar2(256);

BEGIN

IF Part\_IN is null then

Return 'NONE';

Else

Select purchasing\_site Into v\_Site\_Name from escm.escm\_cbom\_part where

Part\_no = Part\_IN;

Return nvl(v\_Site\_Name,'Not Found');

END IF;

EXCEPTION

WHEN OTHERS THEN

IF SQLERRM LIKE '%01403%' THEN

Return 'None Found';

Else

show\_message(SQLERRM, 'ERROR\_ALERT', 'Get\_Site');

RAISE;

End if;

END;

**SPO Notes** is currently calculated as a PLSQL function in the oracle package ESCM.ESCM\_NEW\_BUY. GET\_OVHL\_PART\_COMMENT(‘part\_number’)

Form shall provide the following functionality

On load form will be sorted on SPO\_Export\_Date Desc and filtered on the following

**SPO\_Export\_User** = Login User (both values are BEMS ids)

**Program\_Code** = ’DCC’

**SPO\_Export\_Date**>=(Select sysdate-value\_1 from escm.escm\_lookup where category = 'NEWBUY\_CLS\_DAYS')

Shall offer record filters on the following items.

**Asset Manager** = values selected in pop up box. Display names but use BEMS

**Part Number** = values selected in pop up box.

**SPO\_Export\_User** (My Export) = log in user BEMS.

Approve Order

**Call** function escm.escm\_new\_buy.validate\_ovhl\_ccn(i\_program\_code VARCHAR2, i\_part\_no VARCHAR2, i\_dla\_flag VARCHAR2 DEFAULT 'F')

**If** it returns ‘TRUE’ then set Order.Activity\_Status = ‘Approved by Asset Manager’

**Else** do not change value of Order.Activity\_Status.

Reject Order

**Set** ORDER.Activity\_Status = ‘Rejected by Asset Manager’

Reset Status

**Set** ORDER.Activity\_Status = ‘Awaiting Asset Manager Review’

Add Order records

**Set** REQUIREMENT\_SCHEDULE\_NO = Max (REQUIREMENT\_SCHEDULE\_NO)+1 for current internal order number

**Set** Due\_Date to value in new field (this must be set by user and before CCN can be calculated)

**If** CCN is blank then use escm.escm\_new\_buy. get\_ovhl\_cost\_charge\_number(

i\_program\_code VARCHAR2,

i\_due\_date DATE,

i\_part\_no VARCHAR2,

i\_dla\_flag VARCHAR2 DEFAULT 'F'))

**Else** set ccn to value in field

**If** Priority is blank set to 3 **Else** take value in field

**Set** order number = REQUIREMENT.PROGRAM\_CODE||REQUIREMENT.SPO\_Request\_ID||ORDER. REQUIREMENT\_SCHEDULE\_NO (then new one calculated above)

**Set** Activity\_Status = ‘Awaiting Asset Manager Review’

**Set** Validation\_Status = ‘F’

**Set** Seg\_Code = escm.escm\_new\_buy.get\_ovhl\_seg\_code(i\_program\_code VARCHAR2, i\_part\_no VARCHAR2, i\_dla\_flag VARCHAR2 DEFAULT 'F')

Review Board form

CLS

Form shall display the following fields in a grid (or grids) Note: These fields are currently pulled from the view esmc.escm\_new\_buy\_ccb\_vw.

|  |  |  |  |
| --- | --- | --- | --- |
| Display Name | Column | Editable | Notes |
| Order No | ORDER\_NO | No |  |
| Part No | PART\_NO | No |  |
| Status | ACTIVITY\_STATUS | No |  |
| CCN | COST\_CHARGE\_NUMBER | No |  |
| Nomenclature | NOMENCLATURE | No |  |
| Unit Cost | SPO\_COST | No |  |
| Order Quantity | ORDER\_QUANTITY | No |  |
| Extended Cost | EXTENDED\_COST | No |  |
| Due Date | DUE\_DATE | No |  |

Form shall provide the following functionality

On load form will be filtered on the following Program\_Code <> ’DCC’

Shall offer record filters on the following items.

**Asset Manager** = values selected in pop up box. Display names but use BEMS

**Part Number** = values selected in pop up box.

**Activity\_Status** = one of the values from the query below

Select VALUE\_1 from escm.escm\_lookup where category = 'NEW\_BUY\_STATUS' and (VALUE\_1 In( 'Approved by Asset Manager','Approved by Review Board','Rejected by Review Board')) order by 1

Approve Order

**Set** Order.Activity\_Status = ‘Rejected by Review Board’

**Set** REVIEW\_BOARD\_REMARK\_USER = Current User BEMS

**Set** APPROVED\_BY\_DATE = SYSDATE

**Set** REVIEW\_BOARD\_REMARK\_DATE = SYSDATE

Reject Order

**Set** Order.Activity\_Status = ‘Rejected by Review Board’

**Set** REVIEW\_BOARD\_REMARK\_USER = Current User BEMS

**Set** APPROVED\_BY\_DATE = SYSDATE

**Set** REVIEW\_BOARD\_REMARK\_DATE = SYSDATE

OVHL

Form shall display the following fields in a grid (or grids) Note: These fields are currently pulled from the view esmc.escm\_new\_buy\_ccb\_vw.

|  |  |  |  |
| --- | --- | --- | --- |
| Display Name | Column | Editable | Notes |
| Order No | ORDER\_NO | No |  |
| Part No | PART\_NO | No |  |
| Status | ACTIVITY\_STATUS | No |  |
| CCN | COST\_CHARGE\_NUMBER | No |  |
| Nomenclature | NOMENCLATURE | No |  |
| Unit Cost | SPO\_COST | No |  |
| Order Quantity | ORDER\_QUANTITY | No |  |
| Extended Cost | EXTENDED\_COST | No |  |
| Due Date | DUE\_DATE | No |  |
| Asset Manager Remark | ASSET\_MANAGER\_REMARK | No | Field is currently small with a pop up to read entire contents |
| Review Board Remark | REVIEW\_BOARD\_REMARK | Yes | Field is currently small with a pop up to read or edit entire contents. Written back to Order table |
| SPO Notes | Function (see below) | No | Field is currently small with a pop up to read entire contents |

**SPO Notes** is currently calculated as a PLSQL function in the oracle package ESCM.ESCM\_NEW\_BUY. GET\_OVHL\_PART\_COMMENT(‘part\_number’)

Form shall provide the following functionality

On load form will be filtered on the following Program\_Code <> ’DCC’

Shall offer record filters on the following items.

**Asset Manager** = values selected in pop up box. Display names but use BEMS

**Part Number** = values selected in pop up box.

**Activity\_Status** = one of the values from the query below

Sselect VALUE\_1 from escm.escm\_lookup where category = 'NEW\_BUY\_STATUS' and (VALUE\_1 In( 'Approved by Asset Manager','Approved by Review Board','Rejected by Review Board')) order by 1

Approve Order

**Set** Order.Activity\_Status = ‘Rejected by Review Board’

**Set** REVIEW\_BOARD\_REMARK\_USER = Current User BEMS

**Set** APPROVED\_BY\_DATE = SYSDATE

**Set** REVIEW\_BOARD\_REMARK\_DATE = SYSDATE

Reject Order

**Set** Order.Activity\_Status = ‘Rejected by Review Board’

**Set** REVIEW\_BOARD\_REMARK\_USER = Current User BEMS

**Set** APPROVED\_BY\_DATE = SYSDATE

**Set** REVIEW\_BOARD\_REMARK\_DATE = SYSDATE