



**THE FOUNDATION
FOR SECURE
MARKETS®**

**ENCORE Portfolio Margin Calculator
(PMC) User Guide**

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Overview

The Portfolio Margin Calculator is used by OCC clearing members and external users to calculate portfolio-based margin requirements. A user can enter or upload positions that will generate Customer Portfolio Margin (CPM) or Risk Based Haircut (RBH) requirements. Once the total requirement is calculated, users can view details of the calculation at the Portfolio/Product Group, Class Group, Contract, and Basket levels.

The application utilizes the RBH/CPM Profit/Loss Data files to calculate broker-dealer and market-maker RBH or CPM requirements. In conjunction with the aforementioned theoretical data, users can either enter positions manually or upload a CSV or ASCII formatted position file. Users can also combine manually edited positions with an uploaded position file. After positions are entered on the screen, users can save this data to their local drive in either CSV or ASCII file format for future use. Once a total requirement is calculated, the results are displayed, and the user has the capability to view more granular details of the calculated requirement on their screen or export it as a CSV or PDF formatted file.

Risk Based Haircut and Customer Portfolio Margin requirements calculated using OCC's Portfolio Margin Calculator are based on portfolio information submitted by the user, parameters set forth in SEC Net Capital Rule 15c3-1, and theoretical prices from the previous trading day. All results shall be considered hypothetical in nature and are solely intended to be for informational purposes only. OCC makes no representation, nor does it guarantee or otherwise warrant the accuracy of the information provided by the user or the hypothetical results derived therefrom. Accordingly, OCC disclaims all express or implied warranties, including, but not limited to any implied warranties of merchantability, quality, non-infringement or fitness for a particular purpose, and those arising by statute or otherwise in law or from any course of dealing or usage of trade. Any hypothetical results provided by the application are based on assumptions made by the user and do not represent any actual requirements that may be calculated by a clearing broker or regulatory entity based on actual trading activity.

Accessing the Portfolio Margin Calculator

Clearing members and public users may access the Portfolio Margin Calculator via OCC's public website.

Follow these steps to access the Portfolio Margin Calculator:

1. Select www.theocc.com.
2. In the Risk Management menu, select **Portfolio Margin Calculator**.
3. Select **Launch the Portfolio Margin Calculator**.
4. Review the content in the Disclaimer window, then select **OK**.
The Portfolio Margin Calculator window appears.

Introduction to the Positions Editor

You can use the Positions Editor to view the available contracts, maintain selected positions, and calculate portfolio margin requirements.

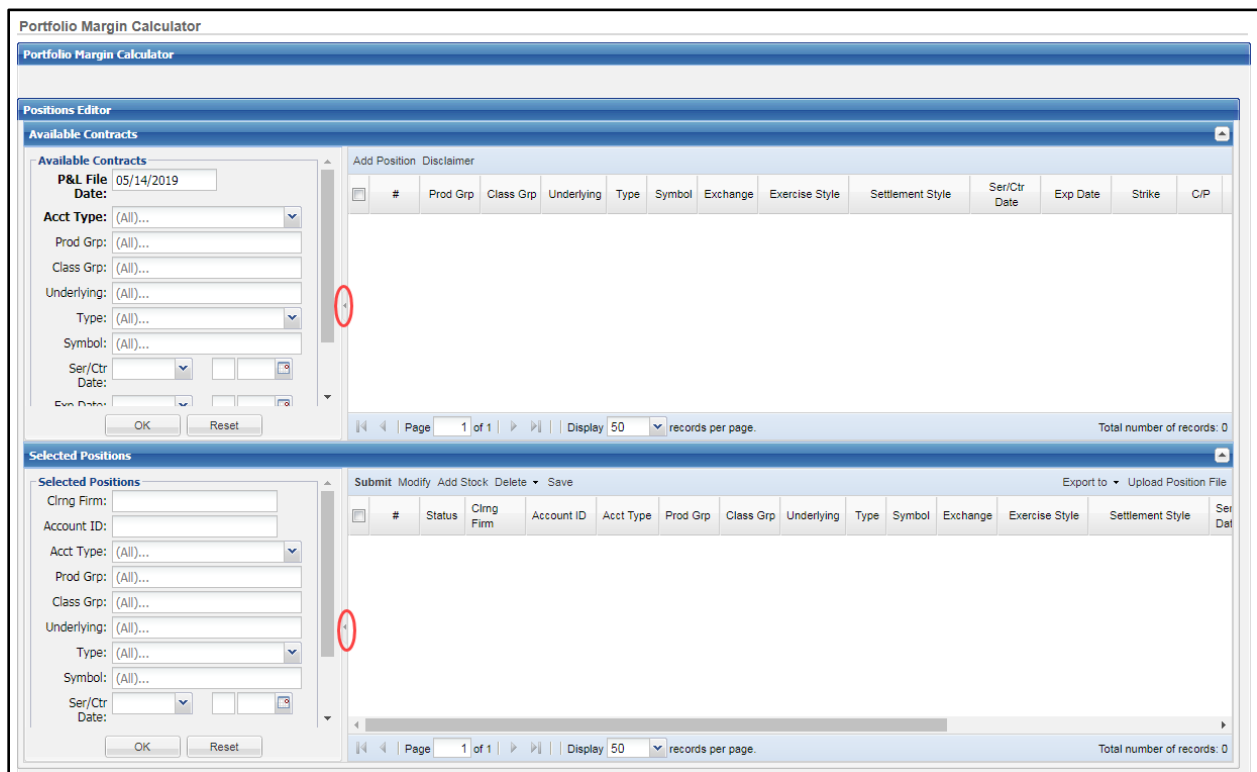


Figure 1: Positions Editor

Notes:

- Select the arrows on the upper right side of the Available Contracts or Selected Positions title bars to expand or collapse each window.

- To hide the filter pane, select the arrow icon (circled in red in the above screen example) to the left of the list view.
- If you sort data within tabs, you can return to the default sort by selecting on the first sortable column heading.

Available Contracts

The Available Contracts window displays data from a specific P&L File date and account type: customer (CPM), broker-dealer/firm (RBH-BD), or market maker (RBH-MM (M)). The filter uses auto suggestion logic.

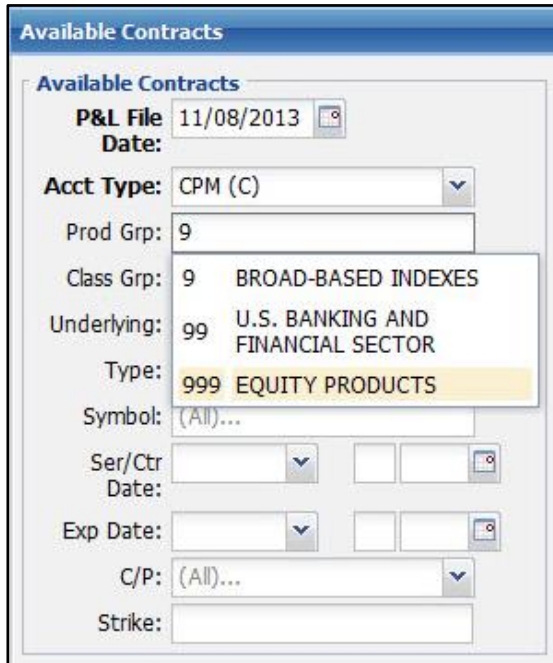


Figure 2: Available Contracts Filter

The list view displays the contracts meeting the filter criteria.

#	Prod Grp	Class Grp	Underlying	Type	Symbol	Exchange	Exercise Style	Settlement Style	Ser/Ctr Date	Exp Date	Strike	C/P
1	9	18	SPY	O	1SPY				01/16/2014		129.2100	P
2	9	18	SPY	O	1SPY				01/16/2014		146.8300	C
3	9	18	SPY	O	1SPY				01/16/2014		146.8300	P
4	9	18	SPY	O	1SPY				01/16/2014		154.1700	C
5	9	18	SPY	O	1SPY				04/19/2014		154.0000	C

Figure 3: Available Contracts List View

Selected Positions

The Selected Positions window allows you to enter position quantities, basket IDs, non-included stocks, and modify certain information, and then submit the positions for portfolio margin requirement calculations given the criteria entered.

Position quantities must be entered to run the calculation. When positions are moved from the Available Contracts list view to the Selected Positions list view, the default quantities are zero.

You can add positions by either filtering and selecting available contracts manually or by uploading a CSV or ASCII format position files.

Once a portfolio is submitted, the results appear on the Results tab. You can toggle between the Results and Position details. You can also export the results into a PDF or CSV file.

The screenshot shows the 'Portfolio Margin Calculator' interface with the 'Results' tab selected. On the left, there is an 'Account' section with fields for 'Clmg Firm', 'Acct ID', and 'Acct Type'. Below it is a 'Position' section with dropdown menus for 'Port Grp', 'Prod Grp', 'Class Grp', 'Symbol', and 'Basket ID'. The main area displays a table with columns for '#', 'Port Grp', 'Prod Grp', 'NAV', 'Requirement', 'Minimum', and a series of numbered columns (-5 to 5). The table contains 8 rows of data, including 'Total' and 'Net' rows. An 'Export to' dropdown is visible in the top right corner of the table area.

#	Port Grp	Prod Grp	NAV	Requirement	Minimum	-5	-4	-3	-2	-1	1	2	3	4	5	
1	BBIDX	9	Total	22,052		-75	-9,241	-7,722	-6,056	-4,164	-2,173	1,614	3,287	5,030	6,807	8,588
2	BBIDX		Gains				0	0	0	0	0	1,614	3,287	5,030	6,807	8,588
3	BBIDX		Losses				-9,241	-7,722	-6,056	-4,164	-2,173	0	0	0	0	0
4	BBIDX		Total	22,052		-75	-9,241	-7,722	-6,056	-4,164	-2,173	1,614	3,287	5,030	6,807	8,588
5	USIDX		Gains				0	0	0	0	0	1,614	3,287	5,030	6,807	8,588
6	USIDX		Losses				-9,241	-7,722	-6,056	-4,164	-2,173	0	0	0	0	0
7	USIDX		Total				-9,241	-7,722	-6,056	-4,164	-2,173	1,614	3,287	5,030	6,807	8,588
8	Port Groups	Net		22,052	-9,241	-75										

Figure 4: Results

Portfolio Margin Calculation

Complete the following high-level steps to calculate portfolio-based margin requirements:

1. View available contracts.
2. Build a portfolio, either by manually adding positions or uploading them from a file.
3. Maintain the selected positions through filtering them and updating quantities, as needed.
4. Calculate and review portfolio margin requirements.

View Available Contracts

Use the Available Contracts filter in the Positions Editor to select available series, contract, and stock data for a specific P&L File date and account type.

Note: The following fields are required for the Available Contracts filter: **P&L File Date**, **Acct Type**, and one of the following categories: **Class Grp**, **Underlying**, or **Symbol**.

Follow these steps to view available contracts:

1. On the Available Contracts filter, select the **P&L File Date** (defaults to the most recent P&L file activity date). Only the most recent P&L File Date is available on the public site.
2. Select the **Acct Type** for which you would like to filter: Valid values are CPM (C), RBH-BD (F), or RBH-MM (M).
3. Select a Product Group (**Prod Grp**).
4. You must select one of the following fields:
 - Class group (Class Grp)
 - Underlying symbol
 - Trading Symbol

Note: If you filter by Product Group (**Prod Grp**), a class group (**Class Grp**) is required.

5. Select the instrument **Type**, the series/contract date (**Ser/Ctr Date**), and/or the expiration date (**Exp Date**).
6. Select whether you want to view Calls, Puts, or Both (**C/P**) and enter the valid **Strike** dollar amount (only valid for options).
7. Select **OK**.

Contracts that meet the filter criteria appear in the Available Contracts list view.

Note: You can sort the results by selecting a column heading. To return to the default sort, select the first sortable column heading.

All fields in the Available Contracts list view are for display only; they are not editable.

The screenshot shows the 'Available Contracts' list view in the Portfolio Margin Calculator. On the left, there is a filter panel with the following fields: P&L File Date (11/08/2013), Acct Type (CPM (C)), Prod Grp ((All)...), Class Grp ((All)...), Underlying ((All)...), Type ((All)...), Symbol (AAPL), Ser/Ctr Date, Exp Date, and C/P ((All)...). The main table displays 12 contracts with the following columns: #, Prod Grp, Class Grp, Underlying, Type, Symbol, Exchange, Exercise Style, Settlement Style, Ser/Ctr Date, Exp Date, Strike, and C/P. The table data is as follows:

#	Prod Grp	Class Grp	Underlying	Type	Symbol	Exchange	Exercise Style	Settlement Style	Ser/Ctr Date	Exp Date	Strike	C/P
1	999	AAPL	AAPL	O	AAPL				11/16/2013		215.0000	C
2	999	AAPL	AAPL	O	AAPL				11/16/2013		215.0000	P
3	999	AAPL	AAPL	O	AAPL				11/16/2013		220.0000	C
4	999	AAPL	AAPL	O	AAPL				11/16/2013		220.0000	P
5	999	AAPL	AAPL	O	AAPL				11/16/2013		225.0000	C
6	999	AAPL	AAPL	O	AAPL				11/16/2013		225.0000	P
7	999	AAPL	AAPL	O	AAPL				11/16/2013		230.0000	C
8	999	AAPL	AAPL	O	AAPL				11/16/2013		230.0000	P
9	999	AAPL	AAPL	O	AAPL				11/16/2013		235.0000	C
10	999	AAPL	AAPL	O	AAPL				11/16/2013		235.0000	P
11	999	AAPL	AAPL	O	AAPL				11/16/2013		240.0000	C
12	999	AAPL	AAPL	O	AAPL				11/16/2013		240.0000	P

At the bottom of the table, there are navigation controls: Page 1 of 45, Display 50 records per page, and OK/Reset buttons.

Figure 5: Available Contracts List View

Build a Portfolio

In order to generate a requirement, a portfolio is required. You can build a portfolio by adding positions manually through the Available Contracts list view or by uploading them from a position file.

Manually Adding Positions

To manually add positions to a portfolio in order to calculate a requirement, select each desired contract in the Available Contracts list view so that a checkmark appears and then select **Add Position**. The selected contracts will subsequently appear in the Selected Positions list view.

Uploading Position Files

You can also import a CSV or ASCII position file in order to generate portfolio margin requirements.

Follow these steps to upload a position file:

1. Select **Upload Position File** in the Selected Positions list view. A dialog box is displayed which contains a browser to upload the file and a list of the Process Results.

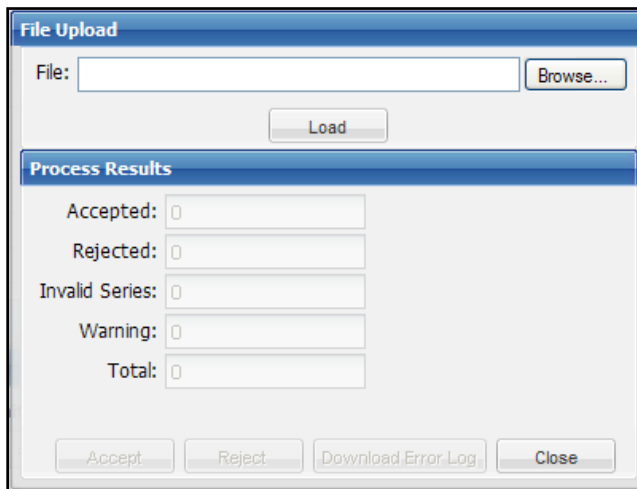


Figure 6: File Upload and Process Results

2. Select **Browse** to locate and select the file you want to upload.
3. Select **Load**. The results include:
 - Records Accepted.
 - Records Rejected.
 - Invalid Series: Record rejected because the contract specifics do not match master file data from the selected P&L File date.
 - Warnings.
 - Total Records.
4. Once the records have been verified, select **Accept** or **Reject**. The uploaded positions display in the Selected Positions list view.

Note: Only accepted positions are submitted for requirement calculation. If there are errors, you can verify the error details by selecting **Download Error Log**.

#	Status	Cmg Firm	Account ID	Acct Type	Prod Grp	Class Grp	Underlying	Type	Symbol	Ser/Ctr Date	Strike	CP	Quantity	Price	Balct ID
2	V	4444	1234567888	F	2	2	BP	I	BP	06/09/2012	1500.0000	P	1		
3	V	4444	saash	C	9	16	DJX	O	DJX	12/21/2013	110.0000	C	100		
4	V	4444	1234567888	F	9	16	DJX	O	DJX	12/21/2013	110.0000	C	100		
5	V	4444	1234567888	F	9	16	DJX	O	DJX	12/21/2013	110.0000	C	100		
6	V	4444	saash	C	9	16	DJX	O	DJX	12/21/2013	110.0000	P	100		
7	V	4444	1234567888	F	9	16	DJX	O	DJX	12/21/2013	110.0000	P	100		
8	V	4444	1234567888	F	9	16	DJX	O	DJX	12/21/2013	110.0000	P	100		
9	V	4444	1234567890	C	999		FAKE	S	FAKE				1	999.00	
10	V	4444	1234567890	C	99	101		S	FAKER				1	50.00	10101

Figure 7: Selected Positions List View

Maintain Selected Positions

After you have loaded positions either by selecting them through the Available Contracts list view or by uploading them from a file, you can filter the list of positions and modify them, as needed, before submitting the portfolio for calculation. Once a portfolio is created in the list view, you can filter the positions, update quantities, modify positions, add stock records, or delete a record.

Filtering Selected Positions

Use the Selected Positions filter to filter positions that have been uploaded or available contracts that have been added via the Available Contracts filter.

Follow these steps to filter selected positions:

1. On the Selected Positions filter, enter the clearing firm (**Clrng Firm**) and **Account ID**, then select the account type (**Acct Type**).
2. Enter the product group (**Prod Grp**), **Class Grp**, or **Underlying** symbol.
3. Select the instrument **Type** and enter the trading **Symbol**.
4. Select the series/contract date (**Ser/Ctr Date**) and the expiration date (**Exp Date**).
5. Select whether the contract is a Call or Put (**C/P**) and enter the valid **Strike** dollar amount (only valid for options).
6. Select **OK**.

Your search results display in the Selected Positions list view.

Updating Quantities

Once available contracts are in the Selected Positions list view, the quantities can be changed. In order for the application to calculate a requirement, the quantities in the Selected Positions list view must not equal zero.

Follow these steps to update selected positions quantities:

1. Select the **Quantity** field (the default is 0) in the Selected Positions list view.
2. Enter the new number.
3. After you have updated the records, select **Save**.

Modifying Positions

You can change certain values in selected positions. Fields that can be changed are clearing firm number, account ID, account type, and basket ID.

Follow these steps to modify selected positions information:

1. Select the records that you want to modify in the Selected Positions list view.

2. Select **Modify**.

The Modify Position Record(s) window appears.

#	Clng Firm	Account ID	Acct Type	Type	Symbol	Ser/Ctr Date	Strike	C/P	Quantity	Bskt ID
1	0		C	O	AAPL	11/16/2013	220.0000	C	0	

Figure 8: Modify Position Record(s) window

3. Enter a new **Clearing Firm**, **Account ID**, **Acct Type**, or **Basket ID**.
4. Select **Apply**. The records are updated in the lower half of the window.
5. Select **Save**.

The Modify Position Record(s) window closes, and the records are modified in the Selected Positions list view.

Adding Stock Records

You can add a stock record that was not included in the date's P&L files to the portfolio. Follow these steps to add stock records that are not included in the P&L file:

1. Select **Add Stock** in the Selected Positions list view.

The Add Stock Loan window appears.

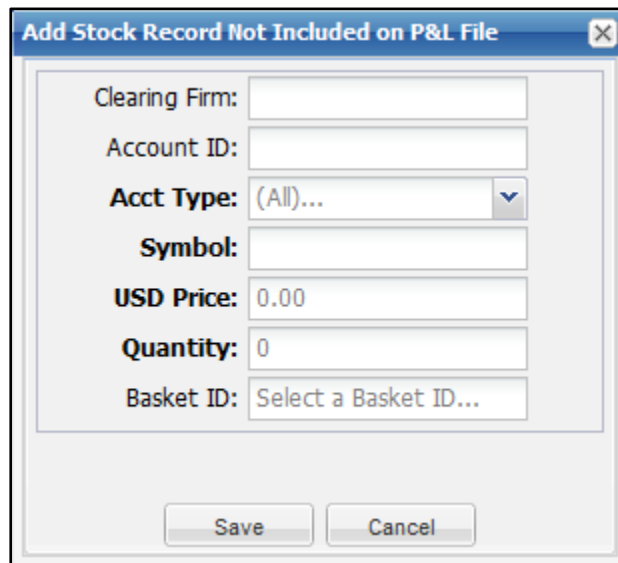


Figure 9: Add Stock Record Not Included on P&L File window

2. Enter the **Clearing Firm** and **Account ID**.
3. Enter an **Account Type**, **Symbol**, **USD Price**, and **Quantity**. (All four fields are required.)
4. Enter a **Basket ID**.
5. Select **Save**.

Note: Stocks already included in the P&L File data are not permitted to be added to positions via this function; you must use the Available Contracts Filter to add stock records that display on the P&L File. If you attempt to add stocks that are already included in the file, the system displays the following message:

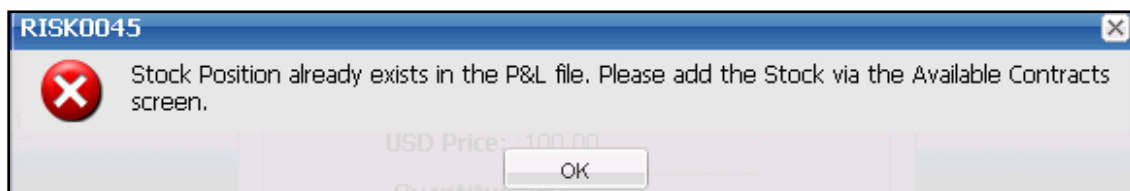


Figure 10: Warning message

Delete Records

Follow these steps to delete selected positions records:

1. Select the position record(s) that you want to delete in the Selected Positions list view.
2. Select **Delete**, and then select **All** or **Selected**.

3. In the Delete confirmation window, select **Yes**.

The specified records are removed from the Selected Positions list view.

Export Records

Follow these steps to export the selected position records in either CSV or ASCII file formats:

1. Select the position records that you want to export in the Selected Positions list view.
2. Select **Export to** and then select **CSV** or **ASCII**.
3. In the File Download window, select **Open** to view the exported file, or select **Save** to open the Save As window and indicate where you want to save the exported file.

Note: You can make changes to the export file, if necessary, and then upload it back in the PMC module.

Calculate Portfolio Margin Requirements

The system enables you to generate portfolio margin requirements for selected positions. After you submit the portfolio, the calculated results are displayed in the Portfolio Margin Calculator screen. Refer to the *RBH/CPM User Guide* for help with interpreting the results.

Follow these steps to calculate portfolio margin requirements and filter the results:

1. In the Selected Positions list view, select **Submit** to generate the portfolio margin requirements for selected positions.

The screenshot displays the Portfolio Margin Calculator interface. The top section is titled 'Available Contracts' and contains a table with columns: #, Prod Grp, Class Grp, Underlying, Type, Symbol, Exchange, Exercise Style, Settlement Style, Ser/Ctr Date, and Ex. The table lists 14 contracts, all of which are selected with checkmarks in the first column. The bottom section is titled 'Selected Positions' and contains a table with columns: #, Status, Ctrng Firm, Account ID, Acct Type, Prod Grp, Class Grp, Underlying, Type, Symbol, Exchange, and Ex. The table lists 5 positions, all of which are selected with checkmarks in the first column. A red box highlights the 'Submit' button in the top left corner of the Selected Positions section.

Figure 11: Selected Positions

The **Results** screen appears.

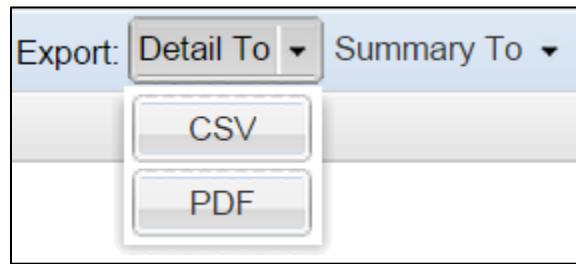
The screenshot displays the 'Portfolio Margin Calculator' interface. On the left, there are filter sections for 'Account', 'Position', and 'Series/Contract'. The 'Account' section includes fields for 'Crlng Firm', 'Acct ID', and 'Acct Type'. The 'Position' section includes fields for 'Port Grp', 'Prod Grp', 'Class Grp', 'Symbol', and 'Basket ID'. The 'Series/Contract' section includes fields for 'Type', 'Ser/Ctr', 'Date', 'Exp Date', 'C/P', and 'Strike'. On the right, the 'Acct Summary' tab is active, showing a table with the following data:

#	Crlng Firm	Acct ID	Acct Type	NAV	Requirement
1	9	4444	Reqt C	30,501	-7,800
2	9	5555	Reqt C	90,004	-23,401
3	9	6666	Reqt C	147,507	-39,001
4	9	7777	Reqt C	203,009	-54,602
5	9	8888	Reqt C	564,527	-156,005
6	9		Reqt	1,035,548	-280,809

Figure 12: Summary Results

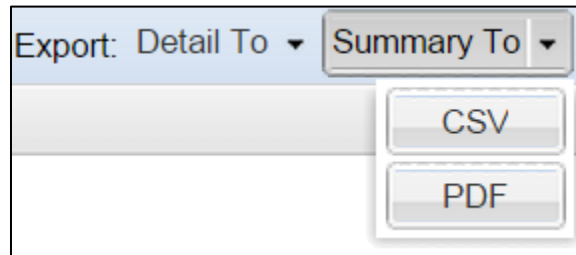
2. Enter filter criteria to narrow the information that appears in the tabs.
3. In the **Acct Summary** tab, select the account for which you want to see additional details.
4. Select the other tabs to view the following information:
 - **Port/Prod Grp** tab: Aggregate NAV and Risk Requirement for portfolio and product groups.
 - **Class Group Totals** tab: NAV, Minimum Requirement, and -5/+5 P/L intervals for class groups.
 - **Contract Details** tab: NAV, Minimum, and -5/+5 P/L intervals for individual contracts.
 - **Basket Details** tab: NAV, Minimum, and P&Ls of stock positions included in the selected basket. You must select a basket from the Contract Details tab in order to access the Basket Details tab.

5. Select **Export: Detail To** in the upper right corner to export the result details to a PDF or CSV file.



Note: Exported PDF files do not include the **Exchange** field, and the **Requirement** field appears in rows for each class group, product group, account, and clearing firm. However, exported CSV files include both the **Exchange** and **Requirement** fields as columns.

6. Select **Summary To** in the upper right corner to export the summary to a PDF or CSV file.



Note: You can select the **Positions** and **Results** buttons above the Results filter in the upper left corner of the screen to toggle between the selected positions and the calculated requirements results.

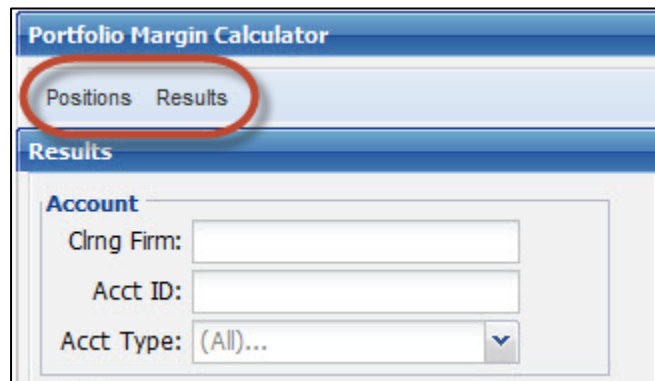


Figure 13: Positions and Results Buttons

Appendix A: Portfolio Margin Calculator Screens

This appendix describes the filters associated with the Portfolio Margin Calculator.

Available Contracts Filter

The Available Contracts filter returns a list of available contracts matching the search criteria that you enter.

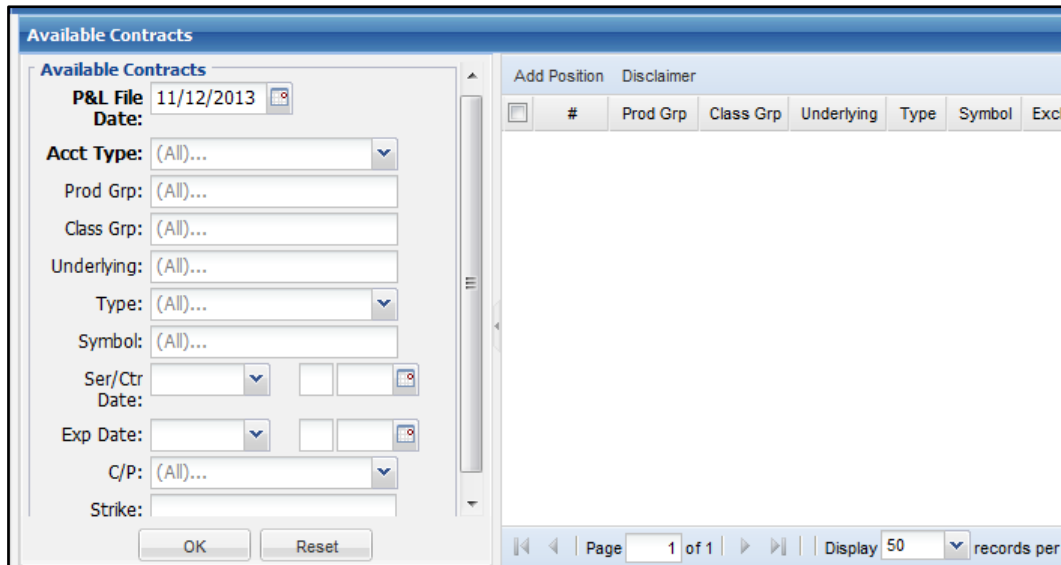


Figure 14: Available Contracts Filter Screen

Item	Description
P&L File Date	Activity date of the Theoretical P&L File. Defaults to the most recent activity date. Only the most recent P&L File is available on the public site.
Acct Type	Account type. Valid values are CPM (C), RBH-BD (F), and RBH-MM (M).
Prod Grp	Product group. Numeric ID and description representing a combination of Class Groups that have highly correlated underlying instruments. Validated against the RBH profit/loss files.
Class Grp	Class group. Alphanumeric ID and description representing a combination of instruments that derive their value from the same underlying security or index. Validated against the RBH profit/loss files.
Underlying	Underlying symbol of an option, future, or warrant. Same as Symbol for all stock records. Validated against the RBH profit/loss files.
Type	Instrument type. Valid values are Future (F), Option on Future (I), Option (O), Stock (S), and Warrant (W).
Symbol	Trading symbol for the option, stock, future, or warrant. Retrieved and validated against the RBH profit/loss files.

Item	Description
Ser/Ctr Date	Original expiration date for option or original contract maturity for future. Validated against the RBH profit/loss files. (Not applicable to stock.)
Exp Date	Expiration date.
C/P	Call or put indicator. Valid values are Call, Put, or Both. (Not applicable for future and stock records.)
Strike	Valid strike dollar amount. (Valid for options only.)
OK	Populate the list view with the refreshed data based on the filter criteria.
Reset	Reset all of the fields on the filter to the default values (except the P&L file date).

Selected Positions Filter

The **Selected Positions** filter returns a list of selected positions matching the search criteria that you enter.

Figure 15: Selected Positions Filter Screen

Item	Description
Clrng Firm	Clearing firm number.
Acct ID	Account number or name.
Acct Type	Account type. Valid values are CPM (C), RBH-BD (F), and RBH-MM (M).
Prod Grp	Product group. Numeric ID and description representing a combination of Class Groups that have highly correlated underlying instruments.
Class Grp	Class group. Alphanumeric ID and description representing a combination of instruments that derive their value from the same underlying security or index.
Underlying	Underlying symbol of an option, future, or warrant. Same as Symbol for all stock records.
Type	Instrument type. Valid values are Future (F), Option on Future (I), Option (O), Stock (S), and Warrant (W).
Symbol	Trading symbol for the option, stock, future, or warrant.
Ser/Cntr Date	Original expiration date for option or original contract maturity for future.
Exp Date	Expiration date.

Item	Description
C/P	Call or put indicator. Valid values are Call, Put, or Both. (Not applicable for future and stock records.)
Strike	Valid strike dollar amount for the generated results set. (Valid for options only.)
OK	Populate the list view with the refreshed data based on the filter criteria.
Reset	Reset all of the fields on the filter to the default values.

Results Filter

The **Results** filter returns a list of results matching the search criteria that you enter.

Portfolio Margin Calculator

Positions Results

Results

Account

Clrng Firm:

Acct ID:

Acct Type: (All)...

Position

Port Grp: (All)...

Prod Grp: (All)...

Class Grp: (All)...

Symbol: (All)...

Basket ID: (All)...

Series/Contract

Type: (All)...

Ser/Ctr Date:

Exp Date:

C/P: (All)...

Strike:

Acct Summary | Port/Prod Grp | Class Group Totals | Contract Details | Basket Details

#	Clrng Firm	Acct ID	Acct Type	NAV	Requirement
1	9	4444	Reqt C	30,501	-7,800
2	9	5555	Reqt C	90,004	-23,401
3	9	6666	Reqt C	147,507	-39,001
4	9	7777	Reqt C	203,009	-54,602
5	9	8888	Reqt C	564,527	-156,005
6	9		Reqt	1,035,548	-280,809

Figure 16: Results Filter Screen

Item	Description
Clrng Firm	Clearing firm number.
Acct ID	Account number and name.
Acct Type	Account type. Valid values are CPM (C), RBH-BD (F), and RBH-MM (M).
Port Grp	Portfolio group ID for the generated results set.
Prod Grp	ID and description of product groups for the generated results set.
Class Grp	ID and description of class groups for the generated results set.
Symbol	Option, stock, future, or warrant trading symbol for the generated results set.
Basket ID	Basket ID for a class group for the generated results set.
Type	Instrument type for the generated results set. Valid values are: Future (F), Option on Future (I), Option (O), Stock (S), and Warrant (W).
Ser/Ctr Date	Original expiration date for option or original contract maturity for future.
Exp Date	Expiration date for the generated results set.
C/P	Call or put indicator for the generated results set. Valid values are Call, Put, or Both.

Item	Description
Strike	Strike dollar amount for the generated results set.
OK	Search for data within the displayed tab that matches the filter criteria.
Reset	Resets all fields in the filter to the default value.

Appendix B: Position File Description

This appendix describes the various components and layout of the CSV and ASCII formatted position files, which can be used to upload multiple positions into the Portfolio Margin Calculator in order to calculate portfolio-based margin requirements. The position file can also be used in conjunction with manually edited positions.

CSV Format

Position Header Record (Optional)

FIELD NAME	DESCRIPTION
TRANS-ID	This field is always '346'
RECORD-TYPE	H – Header record
CLEARING MEMBER NUMBER	Clearing Member Number
DATE	Date a file is produced (CCYYMMDD format)

Detail Record

FIELD NAME	DESCRIPTION
TRANS-ID	This field is always '346'
BLANK	Leave blank
CLEARING FIRM NUMBER	Carrying Broker/Dealer identifier
ACCOUNT ID	Identifier assigned to an account to uniquely identify a customer. Only necessary if different account types are present.
PUT/CALL INDICATOR	C – Call P – Put Required for all options and warrants (warrants are always C). Leave blank for all other products.
SYMBOL	Option, ETF/stock, or futures trading symbol. Included for all products.
BLANK (optional)	Leave blank
EXERCISE STYLE (optional)	A – American E – European

FIELD NAME	DESCRIPTION
SETTLEMENT STYLE (optional)	O – Settle on open C – Settle on close
SERIES/CONTRACT DATE	Series/Contract date for the option/future (CYMMDD format)
EXPIRATION DATE (optional)	Date on which the options or future expires (CYMMDD format)
STRIKE PRICE	For an option the strike dollar amount. The field is zero for future and ETF/stock security types.
FUNCTION	L – Long S – Short
SECURITY TYPE CODE	Security type for the position: O – Option I – Option on Future F – Future S – ETF/stock W – Warrant X – Currency Spot (Symbol must correspond to an RBH currency future.)
MARKET VALUE	Per share closing price for stocks/ETFs (nnnn.nn). Should only be non-zero for stocks symbols not included in the activity date's Theoretical P&L Values File.
NET POSITION	Position quantity
INTERVAL DISTINCTION ID	C – Customer F – Broker/Dealer M – Non-clearing specialist/market maker
BASKET ID* (optional)	Identifies stock positions that the user would like to be included in a hedging basket for the class group that Basket ID represents.

Trailer Record (Optional)

FIELD NAME	DESCRIPTION
TRANS-ID	This field is always '346'
RECORD-TYPE	T – Trailer record

FIELD NAME	DESCRIPTION
CLEARING MEMBER NUMBER	Clearing Member Number
TOTAL LONGS	Total of long net position values found on every detail record
TOTAL SHORTS	Total of short net position values found on every detail record

* Refers to Valid Basket Codes, which are available at <https://www.theocc.com/Risk-Management/RBH-and-CPM-Documentation>

ASCII Format

Position Header Record

NAME OF FIELD	CHARACTER DESCRIPTION	START/ END	DESCRIPTION
TRANS-ID	N,R,ZERO 3	1/3	This field is always '346'
RECORD-TYPE	AN,L,BLANK 1	4/4	H – Header record
CLEARING MEMBER NUMBER	N,R,ZERO 4	5/8	Clearing Member Number
DATE	AN,L,BLANK 8	9/16	Date a file is produced (CCYYMMDD format)

Detail Record

NAME OF FIELD	CHARACTER DESCRIPTION	START/ END	DESCRIPTION
TRANS-ID	N,R,ZERO 3	1/3	This field is always '346'
BLANK	AN,L,BLANK 1	4/4	One blank space
CLEARING FIRM NUMBER	N,R,ZERO 4	5/8	Carrying Broker/Dealer identifier
ACCOUNT ID	AN,L,BLANK 10	9/18	Identifier assigned to an account to uniquely identify that customer
PUT/CALL INDICATOR	AN,L,BLANK 1	19/19	C – Call P – Put Required for all options and warrants (C). Leave blank for all other products.
SYMBOL	AN,L,BLANK 6	20/25	Option ETF/stock or futures trading symbol. Included for all products.
SERIES/CONTRACT DATE	N,L,ZERO 8	26/33	Date on which the options or future expire (CCYYMMDD format)
STRIKE PRICE	N,R,ZERO 9 (5.4)	34/42	For an option the strike dollar amount. The field is zero for future and ETF/stock security types.

NAME OF FIELD	CHARACTER DESCRIPTION	START/ END	DESCRIPTION
FUNCTION	AN,L,BLANK 1	43/43	L – Long S – Short
SECURITY TYPE CODE	AN,L,BLANK 1	44/44	Security type for a position: O – Option I – Option on Future F – Future S – ETF/stock W – Warrant X – Currency Spot (Symbol must correspond to an RBH currency future.)
MARKET VALUE	N,R,ZERO 12(6.6)	45/56	Per share closing price for stocks/ETFs. This field is optional as the price is read from the P/L file
NET POSITION	N,R,ZERO 9	57/65	The position quantity
INTERVAL DISTINCTION ID	AN,L,BLANK 1	66/66	C – Customer F – Broker/Dealer M – Non-clearing specialist/market maker
BASKET ID*	AN,L,ZERO OR BLANK 5	67/71	Identifies stock positions which comprise a hedging basket.

Trailer Record

NAME OF FIELD	CHARACTER DESCRIPTION	START/ END	DESCRIPTION
TRANS-ID	N,R,ZERO 3	1/3	This field is always '346'
RECORD-TYPE	AN,L,BLANK 1	4/4	T – Trailer record
CLEARING MEMBER NUMBER	N,R,ZERO 4	5/8	Clearing Member Number
TOTAL LONGS	N,R,ZERO 11	9/19	Total of long net position values found on every detail record.
TOTAL SHORTS	N,R,ZERO 11	20/30	Total of short net position values found on every detail record.

ASCII Character Description Legend

Alphanumeric – The field can be a combination of letters and numbers.

Numeric – The field must be a number.

Right – The field is justified to the right.

Left – The field is justified to the left.

Numeric entries in the Character Description sections of this Appendix convey the total number of digits in each respective field. They are described as $Nx(y.z)$ where x is the total number of digits in the field; y is the number of integer digits; and z is the number of decimal digits. For example, "18(11.7) represents an eighteen-digit number with eleven integers and seven decimals.

* Refers to Valid Basket Codes, which are available at <https://www.theocc.com/Risk-Management/RBH-and-CPM-Documentation>

Appendix C: Revision History

Revision History

Version	Date	Author	Version Updates
2.3	1/11/2016	OCC	<ul style="list-style-type: none">• Text edits and new graphic on page 17 regarding Detail To export.• New text new graphics on page 18 regarding new Summary To export, and Positions and Results buttons.
2.4	8/10/2017	OCC	<ul style="list-style-type: none">• Revised instructions for accessing the PMC module.• Updated public site URL to www.theocc.com.
2.5	7/27/2018	OCC	<ul style="list-style-type: none">• Updated OCC logo, styles and footers.• No content changes.
2.6	9/3/2019	OCC	<ul style="list-style-type: none">• Revised Position File Description Detail Record layout information for strike prices to contain a maximum of six integers.• Updated Figure 1 and Figure 2 screen captures to reflect the current www.theocc.com site.
2.7	10/16/2019	OCC	Updated Position File Description Detail Record layout information for strike prices to indicate that six-digit price integer expansion is being considered as a future enhancement.
2.8	11/18/2019	OCC	Updated Position File Description Detail Record layout to remove references to an enhancement which was being considered which would have expanded strike price integers to six digits.
2.9	6/29/2020	OCC	Updated the procedure for accessing the PMC application and the navigation to the Valid RBH and CPM Basket Code file.
2.10	11/15/2021	OCC	<ul style="list-style-type: none">• Removed the FMS Exchange field from the Position File Description - Detail Record.• Removed outdated notes regarding processing files with a P&L File Date prior to Dec. 2013.
2.11	4/11/2023	OCC	Updated Appendix B Position File layouts in CSV and ASCII formats.
2.12	12/5/2023	OCC	Revised Position File Description Detail Record layout for CSV-formatted files to remove reference to negative net position values.