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## **ASX Release**

### **MACQUARIE BANK RELEASES SEPTEMBER PILLAR 3 DISCLOSURE DOCUMENT**

23 Nov 2015 - The Macquarie Bank Limited September 2015 Pillar 3 disclosure document was released today on the Macquarie website [www.macquarie.com](http://www.macquarie.com). These disclosures have been prepared in accordance with the Australian Prudential Regulation Authority (APRA) requirements of Prudential Standard APS 330 Capital Adequacy: Public Disclosure of Prudential Information.

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# Pillar 3 disclosures

Macquarie Bank  
September 2015



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# Introduction

Macquarie Bank Limited (MBL) is an Authorised Deposit-taking Institution (ADI) regulated by the Australian Prudential Regulation Authority (APRA). MBL is accredited under the Foundation Internal Ratings Based Approach (FIRB) for credit risk, the Advanced Measurement Approach (AMA) for operational risk, the internal model approach for market risk and the internal model approach for interest rate risk in the banking book. These advanced approaches place a higher reliance on a bank's internal capital measures and therefore require a more sophisticated level of risk management and risk measurement practices.

On 1 January 2013, reforms to the Basel II capital adequacy framework came into effect (the Basel III framework). These reforms are designed to strengthen global capital rules with the goal of promoting a more resilient banking sector. The objective of the reforms is to improve the banking sector's ability to absorb shocks arising from financial stress, whatever the source, thus reducing the risk of spillover from the financial sector to the real economy.

The reforms include;

- Raising the quality, consistency and transparency of the capital base – section 3 (including changes to equity risk, see section 13)
- Introducing a capital requirement to cover Credit Valuation Adjustments (CVA) – section 10
- Introducing an Asset Value Correlation (AVC) loading on exposures to certain financial institutions – section 4
- Requiring capital to be held against exposures to central clearing houses – section 11
- Introducing a range of capital buffers, these will be phased in by 2016.

APRA has implemented the Basel III framework, and in some areas has gone further by introducing stricter requirements (APRA superequivalence). This report details MBL's disclosures as required by APS 330 Capital Adequacy: Public Disclosure of Prudential Information (APS330) as at 30 September 2015 together with the 31 March 2015 comparatives where appropriate.

This report also describes Macquarie's risk management policies and risk management framework and the measures adopted to monitor and report within this framework. Detailed in this report are the major components of capital structure, the key risk exposures and the associated capital requirements. The key risk exposures are credit risk (including securitisation exposures, credit valuation adjustment, and exposures to central counterparties), market risk, and operational risk. Each of these risks are individually discussed in later sections of this report where the individual risk components, measurement techniques and management practices are detailed.

The current Macquarie Bank Group capital, liquidity coverage and leverage ratios and relevant comparatives are set out in the table below.

<b>Capital Ratios</b>	<b>As at 30 September 2015</b>	<b>As at 31 March 2015</b>
Level 2 Macquarie Bank Group Common Equity Tier 1 capital ratio <sup>1</sup>	<b>9.9%</b>	9.7%
Level 2 Macquarie Bank Group Total Tier 1 capital ratio <sup>1</sup>	<b>11.1%</b>	11.0%
Level 2 Macquarie Bank Group Total capital ratio <sup>1</sup>	<b>13.6%</b>	12.4%
Level 2 Macquarie Bank Group Liquidity coverage ratio <sup>1,2,3</sup>	<b>170.0%</b>	-
Level 2 Macquarie Bank Group Leverage ratio	<b>5.1%</b>	-

<sup>1</sup> The Macquarie Bank Group capital and liquidity ratios are well above the regulatory minimum capital ratios required by APRA, and the Board imposed internal minimum capital requirement.

<sup>2</sup> For liquidity coverage ratio, Level 2 Macquarie Bank Group includes Special Purpose Vehicles (SPVs), which are deconsolidated for Capital adequacy purposes.

<sup>3</sup> Simple average based on monthly observations for July, August and September.

In July 2015, the Australian Prudential Regulation Authority (APRA) released the final versions of Prudential Standard APS 110 Capital Adequacy (APS 110) and Prudential Standard APS 330 Public Disclosure (APS 330), which incorporate new disclosure requirements relating to Liquidity Coverage ratio and Leverage ratio for authorised deposit-taking institutions (ADIs). These requirements take effect from 1 July 2015 with comparatives to be disclosed from December 2015 onwards.

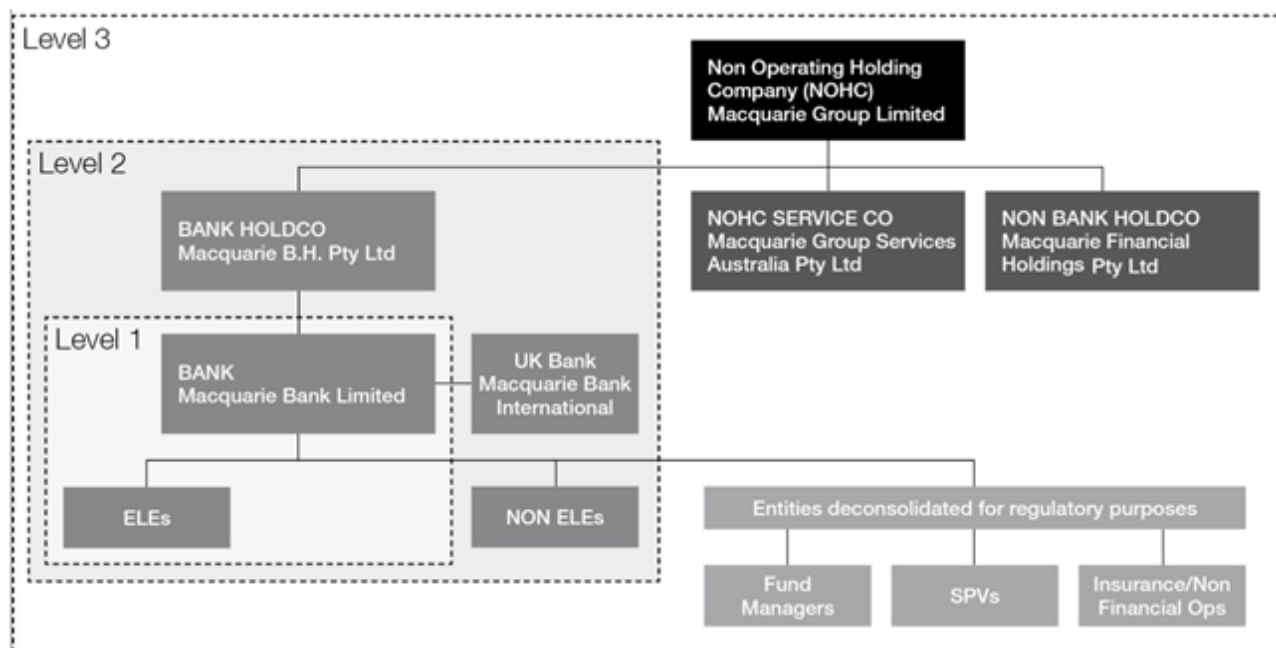
# 1.0 Overview

## 1.1 Scope of Application

MBL, as an approved ADI, is required to comply with the disclosure requirements of APS 330 on a Level 2 basis, as described below.

### 1.1.1 Macquarie Regulatory Group

The regulatory consolidated group is different to the accounting consolidated group and identifies three different levels of consolidation as illustrated below:



Reporting levels are in accordance with APRA definitions contained in ADI Prudential Standard APS 110: Capital Adequacy (APS 110).

MBL and certain subsidiaries which meet the APRA definition of Extended Licensed Entities (ELE) are reported to APRA as Level 1. Level 2 consists of MBL, its subsidiaries and its immediate parent (Macquarie B.H. Pty Ltd) but excluding certain subsidiaries of MBL which are required by APRA to be deconsolidated for APRA reporting purposes. Equity investments into these entities by the Level 2 group are required to be deducted from Common Equity Tier 1 (CET1) capital under APRA ADI Prudential Standard APS 111 Capital Adequacy: Measurement of Capital (APS 111). The subsidiaries which are deconsolidated for regulatory purposes include mortgage and leasing special purpose vehicles (SPVs) and entities conducting insurance, funds management and non-financial operations. These deconsolidated entities result in the Macquarie Level 2 group for regulatory purposes differing from the MBL Group for accounting purposes. Therefore, the disclosures made in this report are for a different group of entities to those made in the Macquarie Bank Limited financial statements. A list of entities deconsolidated for Level 1 and Level 2 reporting purposes is included in Appendix 2.

References in this report to Macquarie or Bank Group refer to the Level 2 regulatory group as described above. Unless otherwise stated, all disclosures in this report represent the Level 2 regulatory group prepared on a Basel III basis.

MBL is part of the larger Macquarie Group Limited Consolidated Group (MGL Group), which includes Macquarie Group Limited (MGL) and its subsidiaries (referred to as 'Level 3'). APS 330 does not require disclosures relating to the Level 3 Group, however, some limited Level 3 disclosures are made in this report (refer section 4.0).

Comments on policies in this report generally reflect policies adopted across the MGL Group, unless it is stated that the policies are specific to any one part of the group.

# 1.0 Overview

## continued

### 1.2 Frequency

The qualitative disclosures in this report are required to be updated on an annual basis and more frequently if significant changes to policies are made. This report has been updated as at 30 September 2015 and policies disclosed within are effective at this time. The capital adequacy and summarised credit risk exposure quantitative disclosures are published on a quarterly basis. All other quantitative disclosures are published semi-annually in conjunction with Macquarie's half year (30 September) and annual (31 March) reporting cycles.

### 1.3 Report Conventions

The disclosures in this report are not required to be audited by an external auditor. However, the disclosures have been prepared on a basis consistent with information submitted to APRA. Under the revised APRA Prudential Standard APS 310, the information submitted to APRA is required to be either audited or reviewed by an external auditor at Macquarie's year end, being 31 March.

Averages have been prepared in this report for certain disclosures as required by APS 330.

All numbers in this report are in Australian Dollars and have been rounded to the nearest million, unless otherwise stated.

Where necessary comparative information has been restated to conform with changes in presentation in the current period.

The Appendices include a Glossary of Terms used throughout this document.

### 1.4 Overview of the Basel III Regulatory Capital Framework

Basel III is designed to raise the resilience of the banking sector by strengthening the regulatory capital framework, building on the three pillars of the Basel II framework. The framework seeks to increase the sensitivity to risk in the capital calculations and to ensure that this is aligned with an ADI's internal processes for assessing risk. Consequently, there are a number of different approaches to risk calculation that allows use of internal models to calculate regulatory capital. A bank may be accredited to use the advanced approaches when it can demonstrate the integrity and sophistication of its risk management framework. It must also ensure that its internal estimates of risk are fully integrated into corporate governance functions as well as internal calculations of capital. Further to this, the most advanced approaches are available if a bank has sufficient depth and history of default data to enable it to generate its own Probability of Default (PD) estimates based on its own loss experience.

The requirements of Basel III are contained within three broad sections or 'Pillars'.

#### 1.4.1 Pillar 1

The first section of the Basel III framework covers the rules by which Risk Weighted Assets (RWA) and capital adequacy must be calculated.

Macquarie has been approved by APRA to apply the FIRB approach for credit risk capital calculation. This approach utilises the PD and internal rating assigned to the obligor. The exposure is weighted using this internal PD and a Loss Given Default (LGD) value set by APRA. Credit Conversion Factors are applied to off balance sheet exposures based on the nature of the exposure.

Operational risk is calculated using the AMA.

Market risk and interest rate risk in the banking book is calculated using the internal model approach.

#### 1.4.2 Pillar 2

Pillar 2 (the Supervisory Review Process) of the Basel III framework requires ADIs to make their own assessments of capital adequacy in light of their risk profile and to have a strategy in place for maintaining their capital levels. Macquarie's Internal Capital Adequacy Assessment Process (ICAAP) addresses its requirements under Pillar 2.

The ICAAP is part of Macquarie's overall risk management framework; its key features include:

- Comprehensive risk assessment process;
- Internal assessment of capital adequacy using Macquarie's economic capital model (refer section 4.1);
- Risk appetite setting (refer section 4.2);
- Capital management plans designed to ensure the appropriate level and mix of capital given Macquarie's risk profile; and
- Regular reporting of capital adequacy and monitoring of risk profile against risk appetite.

Macquarie's ICAAP is subject to Board and senior management oversight and internal control review.

#### 1.4.3 Pillar 3

These disclosures have been formulated in response to the requirements of Pillar 3 of the Basel III Framework. APRA has laid down the minimum standards for market disclosure in its APS 330.

This report includes a breakdown of both on and off-balance sheet exposures, and RWA. The report consists of sections covering:

- Risk Management Framework
- Capital Management
- Credit Risk Measurement
- Securitisation
- Credit Valuation Adjustment
- Exposures to Central Counterparties
- Market Risk
- Equity Risk, and
- Operational Risk
- Liquidity coverage ratio
- Leverage ratio



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## 2.0 Risk Management Policies and Objectives

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Risk is an integral part of Macquarie's business. The main risks faced by Macquarie are market risk, equity risk, credit risk and operational risk.

Responsibility for management of these risks resides with the individual businesses that give rise to them. It is the responsibility of the Risk Management Group (RMG) to ensure appropriate assessment and management of these risks. RMG is independent of all other areas of Macquarie.

### 2.1 Risk Governance at Macquarie

The primary role of the Board is to promote the long-term health and prosperity of Macquarie. Macquarie's robust risk management framework supports the Board in its role and the oversight of the framework is a top priority for the Board.

The Board monitors significant business risks and reviews how they are managed. It also monitors Macquarie's risk management framework, including by forming a view of Macquarie's risk culture, and approving Macquarie's risk appetite statement and risk management strategy. The Board determines delegations to management, approving relevant risk limits and policies, and reviews business developments for consistency with the risk appetite and strategy of Macquarie.

The Board Risk Committee (BRiC) assists the Board by providing oversight of the implementation and operation of Macquarie's risk management framework and constructively challenging senior management's proposals and decisions on risk management arising from the Group's activities. The BRiC assists the Board with its oversight of Macquarie's risk profile, risk appetite and risk culture. The BRiC receives information on breaches of the policy framework and external developments that may have some impact on the effectiveness of the risk management framework.

The Board is also assisted by the following Committees:

- The Board Audit Committee (BAC) monitors the effectiveness of internal financial controls with Macquarie's management, the Head of Internal Audit and the external auditor. The BAC also monitors and reviews the effectiveness of the external auditors and Internal Audit and Credit Assurance;
- The Board Remuneration Committee liaises with the BRiC and the Chief Risk Officer to ensure there is a properly integrated approach to remuneration that appropriately reflects risk; and
- The Board Governance and Compliance Committee (BGCC) reviews Macquarie's corporate governance arrangements and compliance matters. The BGCC also has oversight of Work Health and Safety and environmental matters on behalf of the Board.

The Head of RMG, as Macquarie's Chief Risk Officer (CRO), is a member of Macquarie's Executive Committee and reports directly to the CEO. The CRO has a secondary reporting line to the BRiC. The BRiC approves the replacement, appointment, reassignment or dismissal of the CRO and also reviews the performance and remuneration of the CRO.

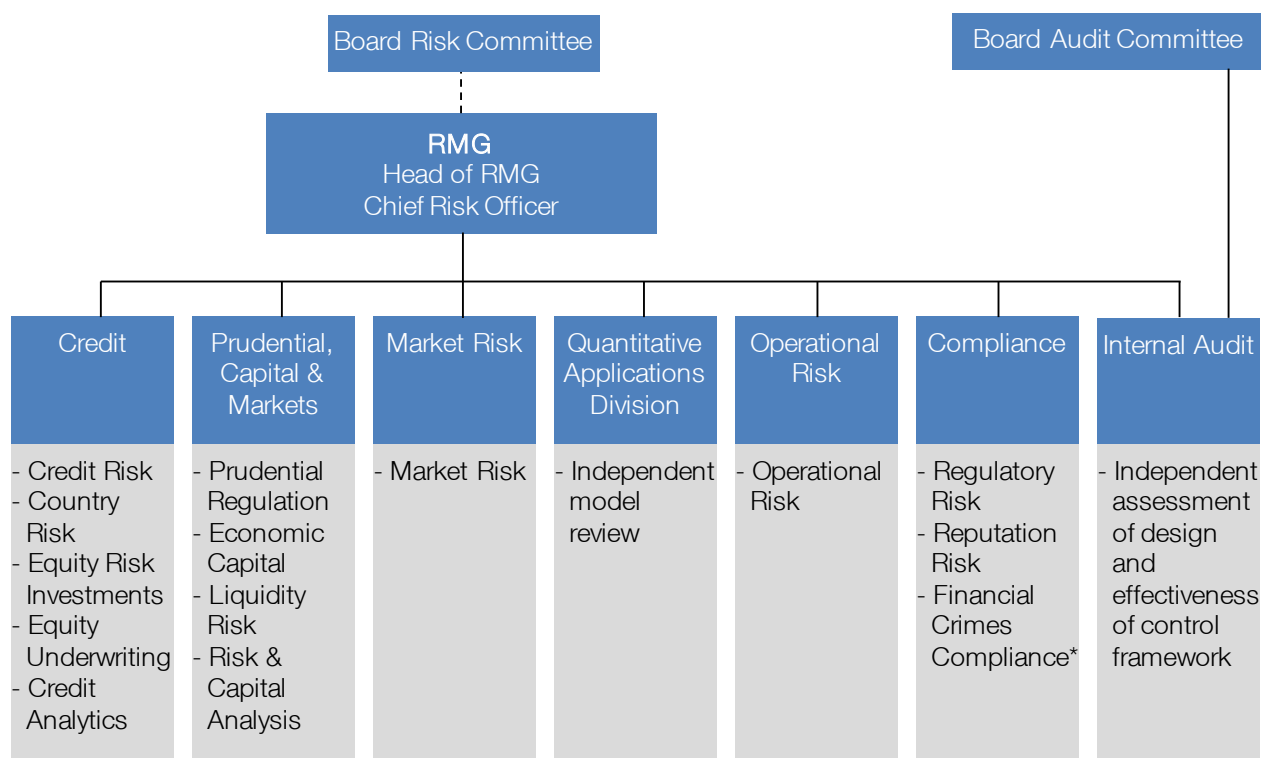
Committees exist at the executive management level to ensure that the necessary elements of expertise are focused on specific risk areas. The Macquarie and Macquarie Bank Executive Committees focus on strategic issues as well as material transactions. The Risk and Compliance Committee is responsible for monitoring the operation of key risk frameworks, internal controls and Macquarie's approach to governance. There are other committees where senior specialists focus on specific risks as appropriate. The Market Risk Committee and the Asset and Liability Committee (ALCO) are examples of these committees.

While committees oversee Macquarie's risk appetite and risk acceptance processes, risk acceptance decisions are ultimately delegated to individuals to ensure that approvers are accountable when signing off on risk acceptance decisions.

## 2.0 Risk Management Policies and Objectives

### continued

#### Risk Management Group Structure:



\*Financial Crimes Compliance includes Anti-money laundering, Anti-bribery & Corruption and Sanctions

#### 2.2 Internal Audit

Internal Audit provides independent assurance to senior management and the Board on the adequacy and operational effectiveness of Macquarie's internal control, risk management and governance systems and processes. Internal Audit provides an independent and objective assessment as to whether risks have been adequately identified; adequate internal controls are in place to manage those risks; and whether those controls are working effectively. Internal Audit is independent of both business management and the activities it reviews.

The Head of Internal Audit is jointly accountable to the BAC and the CRO. The BAC approves the appointment and removal of the Head of Internal Audit who has unlimited access to the BAC.

In addition to the regular review cycle by Internal Audit, Credit Assurance (CA) provides independent oversight of the quality of credit decision making and the credit rating process. This function is described in detail in section 5.2.4.

## 3.0 Capital Structure

### 3.1 Total Available Capital

The Macquarie Bank Group capital supply is detailed in the table below.

	As at 30 September 2015 \$m	As at 31 March 2015 \$m
<b>Common Equity Tier 1 capital</b>		
Paid-up ordinary share capital	8,692	8,690
Retained earnings	1,751	1,884
Reserves	1,113	639
Gross Common Equity Tier 1 capital	11,556	11,213
Regulatory adjustments to Common Equity Tier 1 capital:		
Goodwill	51	50
Deferred tax assets	241	243
Net other fair value adjustments	(40)	(66)
Intangible component of investments in subsidiaries and other entities	42	479
Loan and lease origination fees and commissions paid to mortgage originators and brokers	265	215
Shortfall in provisions for credit losses	259	263
Equity exposures	1,474	1,386
Other Common Equity Tier 1 capital deductions	196	228
Total Common Equity Tier 1 capital deductions	2,488	2,798
<b>Net Common Equity Tier 1 capital</b>	<b>9,068</b>	<b>8,415</b>
<b>Additional Tier 1 capital</b>		
Additional Tier 1 capital instruments	1,112	1,084
Gross Additional Tier 1 capital	1,112	1,084
Deductions from Additional Tier 1 capital:	-	-
Net Additional Tier 1 capital	1,112	1,084
<b>Total Net Tier 1 capital</b>	<b>10,180</b>	<b>9,499</b>
<b>Tier 2 capital</b>		
Tier 2 capital instruments and provisions	2,316	1,237
<b>Total capital base</b>	<b>12,496</b>	<b>10,736</b>

## 3.0 Capital Structure

### continued

#### 3.2 Common Equity Tier 1 Capital

Common Equity Tier 1 capital is defined in paragraphs 18 to 26 of APS 111. Additional Tier 1 capital is defined in paragraphs 27 to 29 of APS111.

Macquarie's Common Equity Tier 1 capital consists of ordinary share capital, retained earnings, and certain reserves. The main component of reserves included in Common Equity Tier 1 capital is the foreign currency translation reserve.

Macquarie's additional Tier 1 capital, consists of Macquarie Income Securities (MIS), Bank Capital Notes (BCN) and Exchangeable Capital Securities (ECS). Macquarie Income Preferred Securities (MIPS) were fully redeemed by Macquarie Bank Group on 22 June 2015.

MIS are a perpetual instrument with no conversion rights. MIS were listed for trading on the Australian Stock Exchange (now known as the Australian Securities Exchange) in 1999. MIS distributions are paid quarterly at a floating rate of BBSW plus 1.7% per annum and payment is subject to certain conditions including profitability of the Bank. MIS are included under Basel III transitional rules which require the value recognised to amortise by 10% each year until no part of the instruments are included after 10 years.

ECS were issued by MBL acting through its London Branch (Issuer), in March 2012 and are quoted on the Singapore Stock Exchange. Subject to certain conditions, the ECS will be exchanged for a variable number of fully paid MGL ordinary shares on 20 June 2017 (or earlier in certain circumstances). The ECS pay interest of 10.25% per annum, paid semi-annually, with the rate to be reset on 20 June 2017 (and each fifth anniversary thereafter) if the ECS remain outstanding after this time. The interest payments are subject to payment tests, including the discretion of the Issuer. APRA has confirmed that the ECS will be 100% eligible hybrid capital until its first call date on 20 June 2017.

BCN were issued by MBL in October 2014 and are quoted on the Australian Stock Exchange. These instruments are non-cumulative and unsecured and may be redeemed at face value on 24 March 2020, 24 September 2020 and 24 March 2021 (subject to certain conditions being satisfied) or earlier in specified circumstances. The BCN pay discretionary, semi-annual floating rate cash distributions equal to 6 month BBSW plus 330bps margin, adjusting for franking credits, paid semi annually.

#### 3.3 Tier 2 Capital

Tier 2 capital is defined in paragraphs 30 to 33 of APS 111.

Macquarie's Tier 2 capital consists of a portion of certain equity and credit loss reserves plus subordinated debt instruments. A portion of subordinated debt is included under Basel III transitional rules which require the value recognised to amortise by 10% each year until no part of the instruments are included after 10 years.

MBL has issued cumulative convertible subordinated debt amounting to US\$750m in June 2015 which is Basel III compliant and not subject to the transitional rules referred to above. This is reported at the value of liability at the period end date.

#### 3.4 Restrictions on capital

Various restrictions or costs exist on the transfer of capital within the Macquarie accounting consolidated Group. For example:

- Licensed entities such as Australian Financial Services Licensed (AFSL) entities are required to maintain minimum capital requirements to comply with their licence. Macquarie seeks to maintain a sufficient level of capital within these entities to ensure compliance with these regulations;
- Where retained earnings are transferred from related entities, tax costs may be payable on repatriation which may reduce the actual amount of available capital;
- As an ADI, Macquarie is subject to the prudential limits imposed by APRA ADI Prudential Standard APS 222: Associations with Related Entities (APS 222);
- RMG also manage and monitor internal limits on exposures to related entities which, combined with APRA's prudential limits, seeks to minimise contagion risk.

## 4.0 Capital Adequacy

### 4.1 Capital Management

Macquarie's capital management strategy is to maximise shareholder value through optimising the level and use of capital resources, whilst also providing the flexibility to take advantage of opportunities as they may arise.

The capital management objectives are to:

- continue to support Macquarie's credit rating;
- ensure sufficient capital resources to support Macquarie's business and operational requirements;
- maintain sufficient capital to exceed externally imposed capital requirements; and
- safeguard Macquarie's ability to continue as a going concern.

Macquarie has developed an economic capital model that is used to quantify MGL's aggregate level of risk. The economic capital framework complements the management of specific risk types such as equity, credit, market and operational risk by providing an aggregate view of MGL's risk profile.

The economic capital model is used to support business decision-making and has three main applications:

- capital adequacy assessment;
- risk appetite setting; and
- risk-adjusted performance measurement.

Capital adequacy is assessed for both MGL and the Bank Group. In each case, capital adequacy is assessed on a regulatory basis and on an economic basis, with capital requirements assessed as follows:

Economic capital adequacy means an internal assessment of capital adequacy, designed to ensure Macquarie has sufficient capital to absorb potential losses and provide creditors with the required degree of protection.

Potential losses are quantified using the Economic Capital Adequacy Model (ECAM). These potential losses are compared to the capital resources available to absorb loss, consisting of book equity and eligible hybrid equity. Earnings are also available to absorb losses, however, only a fraction of potential earnings is recognised as a buffer against losses.

APRA has approved Macquarie's ECAM for use in calculating the regulatory capital requirement of the Non-Bank Group. The ECAM is based on similar principles and models as the Basel III regulatory capital framework for banks, as shown in the table which appears on the following page with both calculating capital at a one year, 99.9% confidence level. This 99.9% confidence level is broadly consistent with the acceptable probability of default implied by Macquarie's credit ratings.

Entity	Economic	Regulatory
MBL	Internal model, covering exposures of the Bank Group	Capital to cover RWA and regulatory deductions, according to APRA's banking prudential standards
MGL	Internal model, covering all exposures of the Group	Bank regulatory capital requirement plus economic capital requirement of the Non-Bank Group

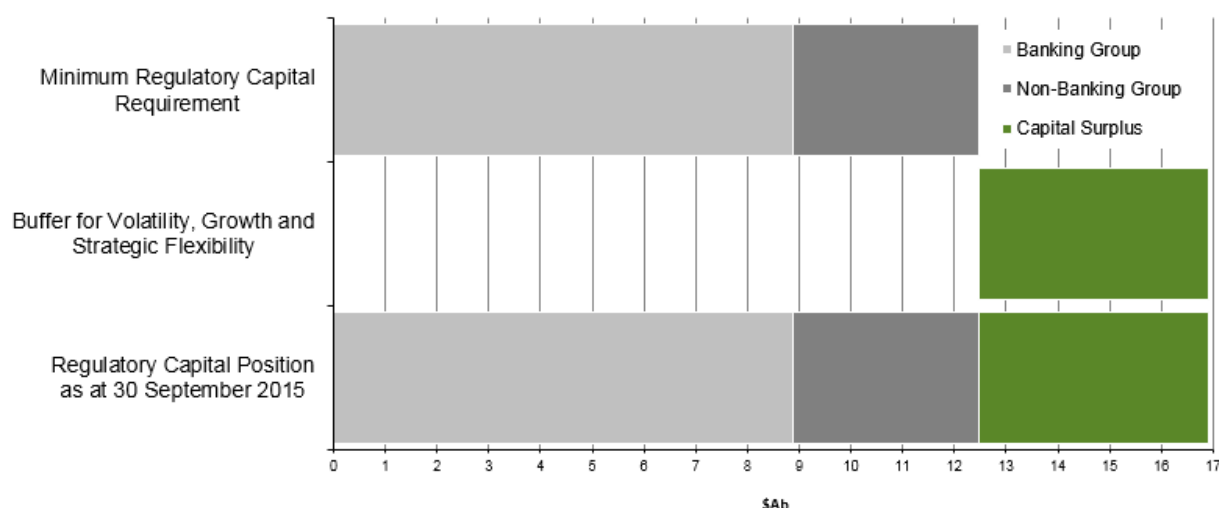
## 4.0 Capital Adequacy

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Risk	Basel III	ECAM
Credit	Capital requirement determined by Basel III formula, with some parameters specified by the regulator (e.g. LGD)	Capital requirement determined by Basel III formula, with internal estimates of key parameters
Equity	Deduction from Common Equity Tier 1	Extension of Basel III credit model to cover equity exposures. Capital requirement between 36% and 82% of face value; average 50%
Market	3 times 10 day 99% Value at Risk (VaR) plus 3 times 10 day 99% Stressed Value at Risk (SVaR), plus a specific risk charge	Scenario-based approach
Operational	Basel III Advanced Measurement Approach	Basel III Advanced Measurement Approach

The regulatory capital adequacy of MGL is shown below.\*

#### Macquarie Group Limited - Regulatory Capital Position (30 September 2015)



\* Calculated at the internal minimum Tier 1 ratio of the Bank Group, which is 7%

Macquarie is currently well capitalised – a substantial regulatory capital surplus exists. An element of this surplus is set aside as a buffer against volatility in the drivers of capital adequacy. The remaining capital surplus is available to support growth and provide strategic flexibility.

In order to reduce volatility in Macquarie's capital adequacy, Macquarie actively manages the sensitivity of its capital position to foreign currency movements. This is achieved by leaving specific investments in core foreign operations exposed to foreign currency translation movements. The resultant change in the Australian dollar value of the foreign investment is captured in the Foreign Currency Translation Reserve, a component of regulatory capital. This offsets the corresponding movement in the capital requirements of these investments.

The capital adequacy results are reported to the MGL Board and senior management on a regular basis, together with projections of capital adequacy under a range of scenarios.

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## 4.2 Risk Appetite Setting

The Board reviews and endorses Macquarie's risk appetite as part of the annual corporate strategy review process.

Risk appetite is the nature and amount of risk that the Group is willing to accept. At Macquarie, this is outlined in the Board-approved Risk Appetite Statement (RAS).

The RAS sets out the degree of risk Macquarie is willing to take overall and for each material risk type. It also conveys the process for ensuring that risk limits (tolerances) are set at an appropriate level, monitored and reviewed.

The key methods by which the statement is put into operation are via the New Product and Business Approval process, aggregate and specific risk limits, relevant policies and communication and training. These are discussed further below.

### New product and business approval process

All new businesses and significant changes to existing products or processes are subject to a rigorous approval process. Approval requires confirming that the proposal is consistent with the principles stated in the RAS. The process is interactive and results in constructive dialogue on risk matters.

This formal process is designed so that the proposed transaction or operation can be managed properly and does not create unknown or unwanted risks for Macquarie in the future. All relevant risks (for example, market, credit, equity, legal, compliance, taxation, accounting, operational and systems) are reviewed to ensure that they are identified and addressed prior to implementation (including ongoing risk monitoring processes). The approvals of RMG, Finance Division, Taxation Division, Legal and Governance and other relevant stakeholders within Macquarie are obtained. RMG also checks that all necessary internal approvals are obtained prior to commencement.

For all material transactions, independent input from RMG on the risk and return of the transaction is included in the approval document submitted to senior management.

The Operational Risk function within RMG oversees the new product and business approval process.

RMG Internal Audit performs an audit of the operations of any significant new businesses based on an assessment of the associated risk faced by Macquarie. The audit typically takes place within six to twelve months following acquisition or launch and includes confirmation that operations are in line with the new product approval document.

### Limits

In many cases limits translate risk appetite principles into hard constraints on individual businesses.

These consist of specific risk limits given to various businesses and products or industry sectors as well as the Global Risk Limit that constrains Macquarie's aggregate level of risk.

Macquarie sets the Global Risk Limit with reference to earnings and not just capital. The limit is set in such a way that in a prolonged and severe downturn, losses would be covered by earnings and surplus capital, and market confidence in Macquarie is maintained.

In accordance with Macquarie's 'no limits, no dealing' approach, individual credit and equity exposures must also fit within approved counterparty limits. Market risk exposures are governed by a suite of individual and portfolio limits.

These granular limits are set to allow businesses to achieve their near-term plans and promote a reassessment of the opportunity and associated risks as the limit is reached.

### Relevant policies

Policies expand on the principles found in the RAS and often translate them into what must be done operationally by an individual or business.

Policies are communicated regularly to key staff. Director level staff attend mandatory risk management framework and policy training on a regular basis. Training programs for specific policies are also in place.

### Communication and training

The RAS is available for all staff to access and is referred to in the *Code of conduct* which is a document that must be read by all staff.

In addition, the principles in the RAS are communicated to relevant staff by other formal and informal training programs.

### The Risk Appetite Test – An aggregate stress test

The key tool that the Board uses to aggregate risk appetite is the Risk Appetite Test. This is a Macquarie-wide stress test which considers losses and earnings under a severe economic downturn scenario with the aim of Macquarie emerging from the severe downturn with sufficient capital to operate.

## 4.0 Capital Adequacy

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The Risk Appetite Test asserts that potential losses must be less than the Global Risk Limit which comprises underlying earnings that Macquarie can achieve in a three year downturn (downturn forward earnings capacity) plus surplus regulatory capital. Consideration is also given to the year by year outcome of the modelled downturn scenario to ensure that market confidence is maintained.

Downturn forward earnings capacity is estimated by the operating groups with reference to a three year downturn scenario provided to them by RMG.

Aggregate risk can be broken down into two categories:

- **business risk**, meaning decline in earnings through deterioration in volumes and margins due to market conditions; and
- **potential losses**, meaning potential credit losses, write-downs of equity investments, operational risk losses and losses on trading positions (including Credit Valuation Adjustment).

Business risk is captured by the difference in base case and downturn earnings estimates. Potential losses are quantified using a version of the economic capital model. A principal use of the Risk Appetite Test is in setting the Equity Risk Limit (ERL). This limit constrains Macquarie's aggregate level of risk arising from principal equity positions, managed fund holdings, property equity investments, lease residuals and other equity investments. Any changes to the ERL are sized to ensure that even under full utilisation of this limit, and allowing for growth in other risk types, the requirements of the Risk Appetite Test will be met.



### 4.3 Risk Weighted Assets (RWA)

RWA are a risk based measure of exposures used in assessing overall capital usage of the Bank Group. When applied against eligible regulatory capital the overall capital adequacy is determined. RWA are calculated in accordance with APRA Prudential Standards.

The table below sets out the RWA exposures for the Macquarie Bank Group.

**APS 330 Table 6 (b) to (f)**

	As at 30 September 2015 \$m	As at 31 March 2015 \$m
<b>Credit risk</b>		
Subject to IRB approach		
Corporate	28,592	27,780
SME Corporate	2,466	2,211
Sovereign	371	350
Bank	1,792	1,726
Residential Mortgages	6,150	5,416
Other Retail	3,502	3,382
Retail SME	2,624	2,545
<b>Total RWA subject to IRB approach<sup>1</sup></b>	<b>45,497</b>	<b>43,410</b>
<b>Specialised lending exposures subject to slotting criteria<sup>2</sup></b>	<b>7,902</b>	<b>7,044</b>
Subject to Standardised approach		
Corporate	892	659
Residential Mortgages	3,259	3,008
Other Retail	1,690	1,265
<b>Total RWA subject to Standardised approach<sup>1</sup></b>	<b>5,841</b>	<b>4,932</b>
<b>Credit risk RWA for securitisation exposures</b>	<b>783</b>	<b>729</b>
<b>Credit Valuation Adjustment RWA</b>	<b>3,153</b>	<b>2,769</b>
<b>Exposures to Central Counterparties RWA</b>	<b>1,490</b>	<b>1,776</b>
<b>RWA for Other Assets</b>	<b>10,558</b>	<b>9,790</b>
<b>Total Credit risk RWA</b>	<b>75,224</b>	<b>70,450</b>
<b>Market risk RWA</b>	<b>5,487</b>	<b>6,650</b>
<b>Operational risk RWA</b>	<b>10,389</b>	<b>9,399</b>
<b>Interest rate risk in the banking book RWA<sup>3</sup></b>	<b>812</b>	<b>-</b>
<b>Total RWA</b>	<b>91,912</b>	<b>86,499</b>

<sup>1</sup> Refer to section 6.0 for more details on exposures calculated under the IRB and Standardised approaches.

<sup>2</sup> Specialised lending exposures subject to supervisory slotting criteria are measured using APRA determined risk weightings.

<sup>3</sup> Interest rate risk in the banking book RWA is now non zero due to a methodology change that transfers exposures previously captured in Market Risk.

## 4.0 Capital Adequacy

### continued

Ratios for Common Equity Tier 1, Total Tier 1, and Total capital of Macquarie Bank Group are set out below.

#### APS 330 Table 6 (g)

<b>Capital Ratios</b>	<b>As at 30 September 2015</b>	<b>As at 31 March 2015</b>
Level 2 Macquarie Bank Group Common Equity Tier 1 capital ratio	<b>9.9%</b>	9.7%
Level 2 Macquarie Bank Group Total Tier 1 capital ratio	<b>11.1%</b>	11.0%
Level 2 Macquarie Bank Group Total capital ratio	<b>13.6%</b>	12.4%
Level 1 Macquarie ELE Common Equity Tier 1 capital ratio	<b>9.5%</b>	9.9%
Level 1 Macquarie ELE Total Tier 1 capital ratio	<b>10.8%</b>	11.3%
Level 1 Macquarie ELE Total capital ratio	<b>13.4%</b>	12.8%

APRA requires ADIs to have a minimum ratio of total capital to risk weighted assets of 8%, with at least 4.5% of this capital in the form of Common Equity Tier 1 capital, and 6% in the form of Total Tier 1 capital. In addition, APRA imposes ADI specific minimum capital ratios which may be higher than these levels.

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## 5.0 Credit Risk Measurement

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### 5.1 Credit Risk Overview

Credit risk is defined as the risk of a counterparty failing to complete its contractual obligations when they fall due. The consequent loss is either the amount of the loan not paid back, or the loss incurred in replicating a trading contract with a new counterparty.

Macquarie maintains a comprehensive and robust framework for the identification, analysis and monitoring of its credit risk exposure arising within each business. Key aspects of the framework are detailed below.

### 5.2 Credit Risk

Macquarie's philosophy on credit risk management reflects the principle of separating prudential control from operational management. The responsibility for approval of credit exposures is delegated to specific individuals.

All credit risk approvals reflect two principles:

- a requirement for dual sign-off; and
- a requirement that, above specified limits, all credit exposures must be approved outside the business line proposing to undertake them.

#### 5.2.1 Analysis and Approval of Exposures

MGL and MBL Boards are responsible for establishing the framework for approving credit exposures. The Boards delegate discretions to approve credit exposure to designated individuals within the Group whose capacity to exercise authority prudently has been adequately assessed.

Operating groups are assigned modest levels of credit discretions. Credit exposures above those levels are assessed independently by RMG and approved by senior RMG staff, the CEO and the Boards as required.

Macquarie enforces a strict 'no limit, no dealing' rule; all proposed transactions are analysed and approved by designated individuals before they can proceed.

All wholesale credit exposures are reviewed at least once a year, or more frequently if required. Retail credit exposures are monitored on a portfolio basis.

## 5.0 Credit Risk Measurement

### continued

#### 5.2.2 Macquarie Ratings

All corporate, sovereign and bank counterparties (wholesale) customer limits and exposures are allocated a Macquarie Group rating (MQ rating) which broadly correspond with Standard and Poor's (S&P), Fitch and Moody's Investor Services credit ratings. Each MQ rating has been assigned a Probability of Default (PD) derived from Standard and Poor's or Moody's long term average one year default rates for similarly rated obligors. A Loss Given Default (LGD) percentage is additionally assigned to each limit and exposure, reflecting the economic loss estimated to result if default occurs, taking into account the security supporting the credit exposure.

Ratings provided by External Credit Assessment Institutions (ECAI) are considered throughout the rating process but are supplementary to the internal rating process.

The table below outlines the internal MQ Ratings relative to ECAI ratings.

MQ ratings are used to:

- assess the default risk of credit exposures for management reporting, credit approval of limits, risk attribution and regulatory purposes;
- assist in credit decisions by providing guidelines and tools that promote a more consistent analytical approach;
- assist in the process of sharing credit knowledge (including knowledge of specialised and unique companies, industries and products); and
- provide a basis for disclosing and reporting to investors and the market.

Each MQ rating band is associated with an estimate of the PD by the counterparty on its financial obligations and provides a consistent measure across the Bank Group. Applicable at either the borrower or transaction level, a rating must be justified and set as part of the credit approval and review process.

The ratings process combines a quantitative analysis by way of scoring industry specific risk factors and a qualitative assessment based on expert judgement.

#### Rating System

Macquarie	S&P	Fitch	Moody's
MQ1	AAA	AAA	Aaa
MQ2	AA+	AA+	Aa1
	AA	AA	Aa2
	AA-	AA-	Aa3
MQ3	A+	A+	A1
MQ4	A	A	A2
MQ5	A-	A-	A3
MQ6	BBB+	BBB+	Baa1
MQ7	BBB	BBB	Baa2
MQ8	BBB-	BBB-	Baa3
MQ9	BB+	BB+	Ba1
MQ10	BB	BB	Ba2
MQ11	BB-	BB-	Ba3
MQ12	B+	B+	B1
MQ13	B	B	B2
MQ14	B-	B-	B3
MQ15	CCC+	CCC+	Caa1
	CCC	CCC	Caa2
	CCC-	CCC-	Caa3
MQ16	CC	CC	Ca
	C	C	C
MQ99	D	RD/D	D

For wholesale counterparties, Macquarie utilises a number of industry templates and a sovereign template to assess the appropriate MQ ratings. These industry templates are designed to ensure that Macquarie ratings take into account the different risk factors that affect different industries. Analysts are required to input a range of quantitative and qualitative factors and then consider the MQ rating output. At the same time as considering the appropriate MQ rating, analysts are also required to consider the appropriate LGD. For economic capital purposes, LGDs are stressed estimates, taking into account the security, jurisdiction, seniority and quality of the balance sheet. For regulatory capital, MBL uses the APRA supervisory estimates for LGDs.

For retail counterparties, PDs and LGDs are assigned to retail pools. Retail exposures are allocated to pools, such that each pool has homogenous risk. PDs and LGDs are calculated using the following methods:

- **PDs:** calculate the long-run average default rate from the internal and external default data available for each pool. When internal data is not available in sufficient quantity, external data is used but only in the case where it is relevant to the pool.
- **LGDs:** consider a downturn scenario and the loss that would be incurred for this scenario on defaulted loans in each pool.

Macquarie applies a standard definition of default, which is that an item is considered defaulted when it is either (i) 90 days past due or; (ii) unlikely to pay. 'Unlikely to pay' is defined in Macquarie policies based on APRA standards.

All templates and models are validated annually by Credit Assurance (CA). CA is an independent function, and the validation tasks are outlined in a detailed framework. Refer to section 5.2.4 for further detail of this function. Annually, CA undertakes the following:

- review of wholesale ratings templates;
- validation of wholesale PD estimates;
- validation of wholesale LGD estimates;
- ratings migration analysis of wholesale PD ratings;
- validation of retail PDs;
- validation of retail LGDs; and
- approval of any changes to credit risk models.

Macquarie has developed extensive system functionality to support the allocation of internal ratings. This application ensures that all supporting factors and weightings are stored together with the system-generated rating.

Approvers have access to all of these details through the credit approval process. Details are also maintained of any rating override which must be accompanied by specific commentary from the credit analyst and which is subject to regular monitoring by CA.

Macquarie considers that ratings are an integral part of determining the creditworthiness of the obligor. However, Macquarie does not believe that model and template output should replace thorough and thoughtful analysis. In addition to the system details, credit analysts must also provide specific justification of the internal rating as part of their overall credit analysis of each counterparty. Credit approvers consider and approve the internal rating for the counterparty in relation to the size and tenor of their proposed credit limits.

All proposals for significant deals, products and businesses must contain an analysis of risk-adjusted returns, based on the ECAM which for credit exposures is a function of the assessed credit rating (together with other factors such as maturity and estimates of LGD). In assessing these proposals, the Executive Committee and Board consider these returns together with other relevant factors. They therefore form an important element in ensuring the visibility and impact of the MQ rating to the overall risk acceptance decision.

Risk-adjusted performance metrics for each business unit are prepared on a regular basis and distributed to senior management and the Board as well as to business units. These performance metrics are also based on calculations of Economic Capital usage and are a significant factor when allocations of performance-based remuneration are determined for each business.

### 5.2.3 Measuring and Monitoring Exposures

Credit exposures are calculated differently according to the nature of the obligation. Loan assets are reported at full face value whereas derivative contracts are measured according to both internal and regulatory measures of Counterparty Credit Exposure. Exposures are assessed in the context of the replacement cost of the contract should the counterparty default prior to the maturity of the trade.

Derivative revaluation based measures are calculated using valuation models which are consistent with those used for determining mark to market values for financial reporting purposes and are reported daily to RMG Credit.

## 5.0 Credit Risk Measurement

### continued

For regulatory purposes, CEA (Credit Equivalent Amount) is calculated according to the methodology outlined in the APRA ADI Prudential Standards (APS) which combines the positive mark-to-market value (Current Credit Exposure) with a percentage of the face value based on the type of contract and the contractual maturity (Potential Credit Exposure). CEA exposures are used in daily calculations of large exposures in accordance with APS 221 Large Exposures.

The internal measure of counterparty credit exposure is calculated as a function of market movements. A range of exposure profiles are calculated representing portfolio exposures at different confidence levels or under predefined scenarios through the life of the portfolio. At a minimum, counterparty credit limits are set for all businesses against a consistent low probability (high confidence) profile. The effect of this limit framework is to ensure that there is a low probability of exposures exceeding the original approved limit. The models and parameters used to determine future asset prices and consequent portfolio exposures are reviewed and approved by RMG quarterly, significant changes in volatility or market conditions result in more frequent reviews.

High confidence level exposure measures are supplemented by regular and ad hoc exposure sensitivity analysis to evaluate the effect of extreme stress on the portfolio.

Both the internal and regulatory calculations of exposure relating to derivatives are calculated on a net basis where appropriate legal netting arrangements are in effect. The details of what products can be netted for each counterparty are recorded in legal documentation systems. These systems are tightly integrated into the exposure calculation functionality and serve to ensure that netting is only performed when the legal basis for this has been formally assessed and confirmed.

Where trading gives rise to settlement risk, this risk is normally assessed at full face value of the settlement amount. However, Macquarie utilises a number of market standard clearing mechanisms to ensure that the bulk of settlements are effected on a secured basis or through exchanges where a Delivery versus payment (DVP) settlement process is ensured.

Contingent exposures arising from the issuance of guarantees, letters of credit and performance bonds are also reported daily.

On and off-balance sheet exposures are considered together for approval, monitoring and reporting purposes. Credit exposures of all types are calculated and reported daily.

Each business is responsible for calculating their credit exposures to ensure that they stay within credit limits. In addition, these exposures are supplied to RMG Credit on a daily basis for centralised limit monitoring. Any excesses identified are investigated and escalated as appropriate to both business line and RMG management. All reportable excesses are summarised and reported to the Board monthly.

All wholesale limits and ratings are reviewed at least once a year, or more frequently if necessary, to ensure any deterioration is identified and reflected in an adjustment to limits and/or their MQ rating. Furthermore, other indicators of deterioration in credit quality are monitored daily, such as share price and credit default swap spread movements, covenant breaches and credit ratings downgrades. Where appropriate, these are reported to senior management and where recoverability is in doubt, appropriate provisions are held.

A review of the Credit and Equity Portfolio analysing exposure concentrations by counterparty, country, risk type, industry and credit quality is carried out quarterly and reported to the Board semi-annually. Policies are in place to limit large exposures to single counterparties or groups of counterparties.

#### 5.2.4 Credit Assurance

CA is a centralised function within RMG which independently verifies the effectiveness of Macquarie's credit risk management. It provides an independent assurance of the effectiveness of credit processes and controls.

CA's key responsibilities:

- reporting on the effectiveness of RMG Credit's policies, controls and procedures including sample testing to ensure compliance with key Credit policies and the effectiveness of critical controls;
- oversight and validation of the internal wholesale credit risk rating systems and validation of credit risk estimates for retail portfolios, to ensure ratings remain appropriate; and
- responsibility for policy and procedures for credit discretions and internal ratings

CA reports to the Head of Credit Central, except in matters which affect RMG Credit. To ensure independence on reviews of RMG Credit, the Head of Credit Assurance reports directly to the CRO on a quarterly basis. In addition to regular reporting to senior management, CA is required to report at least annually to, and have an annual private session with, the BAC. In the interim, matters that require Board attention are reported via the CRO.

### 5.3 Macquarie's Credit Risk Exposures

Credit exposures are disclosed in the following pages dissected by:

- geographic distribution;
- maturity profile;
- measurement approach;
- risk weight banding; and
- risk grade.

Disclosures in this section have been prepared on a gross credit exposure basis. Gross credit risk exposure relates to the potential loss that Macquarie would incur as a result of a default by an obligor. The gross credit risk exposures are calculated as the amount outstanding on drawn facilities and the exposure at default on undrawn facilities. The exposure at default is calculated in a manner consistent with APRA ADI Prudential Standards.

Exposures have been based on a regulatory Level 2 group as defined in section 1.1.1. The gross credit risk exposures in this section will differ from the disclosures in the Macquarie Bank Limited Consolidated financial statements as gross credit risk exposures include off balance sheet exposures but exclude the exposures of subsidiaries which have been deconsolidated for APRA reporting purposes.

The exposures below exclude the impact of:

- credit risk mitigation (discussed in section 8);
- securitisation exposures (discussed in section 9);
- CVA (discussed in section 10)
- Central counterparty exposures (discussed in section 11)
- trading book exposures (discussed in section 12); and
- equity exposures (discussed in section 13).

APS 330 Table 7(b)

Portfolio Type	As at 30 September 2015 \$m	As at 31 March 2015 \$m
Corporate <sup>1</sup>	47,708	44,486
SME Corporate <sup>2</sup>	3,413	3,154
Sovereign	2,835	2,691
Bank	11,113	11,373
Residential Mortgages	32,367	29,806
Other Retail	7,172	6,641
Retail SME	4,239	4,071
Other Assets <sup>3</sup>	14,839	14,560
<b>Total Gross Credit Exposure</b>	<b>123,686</b>	<b>116,782</b>

<sup>1</sup> Corporate includes Specialised Lending exposure of \$8,813 million as at 30 September 2015 (31 March 2015: \$8,450 million).

<sup>2</sup> SME Corporate includes Specialised Lending exposure of \$543 million as at 30 September 2015 (31 March 2015: \$519 million).

<sup>3</sup> The major components of Other Assets are operating lease residuals, other debtors and unsettled trades.

## 5.0 Credit Risk Measurement

### continued

APS 330 Table 7(b) (continued)

	On Balance Sheet \$m	As at 30 September 2015 Off Balance sheet		Total \$m	Average Exposures for the 6 months \$m
		Non-market related \$m	Market related \$m		
<b>Subject to IRB approach</b>					
Corporate	18,711	3,555	15,737	38,003	36,690
SME Corporate	2,532	338	-	2,870	2,752
Sovereign	2,343	-	492	2,835	2,763
Bank	4,439	-	6,674	11,113	11,243
Residential Mortgages	23,976	434	-	24,410	22,916
Other Retail	5,432	-	-	5,432	5,351
Retail SME	4,217	22	-	4,239	4,155
<b>Total IRB approach</b>	<b>61,650</b>	<b>4,349</b>	<b>22,903</b>	<b>88,902</b>	<b>85,870</b>
<b>Specialised Lending</b>	<b>8,708</b>	<b>495</b>	<b>153</b>	<b>9,356</b>	<b>9,162</b>
<b>Subject to Standardised approach</b>					
Corporate	-	892	-	892	776
Residential Mortgages	7,957	-	-	7,957	8,170
Other Retail	1,740	-	-	1,740	1,556
<b>Total Standardised approach</b>	<b>9,697</b>	<b>892</b>	<b>-</b>	<b>10,589</b>	<b>10,502</b>
<b>Other Assets</b>	<b>11,592</b>	<b>2,454</b>	<b>793</b>	<b>14,839</b>	<b>14,700</b>
<b>Total Gross Credit Exposures</b>	<b>91,647</b>	<b>8,190</b>	<b>23,849</b>	<b>123,686</b>	<b>120,234</b>



**APS 330 Table 7(b) (continued)**

	On Balance Sheet \$m	As at 31 March 2015 Off Balance sheet		Total \$m	Average Exposures for the 6 months \$m
		Non-market related \$m	Market related \$m		
Corporate	18,039	4,077	13,261	35,377	31,834
SME Corporate	2,338	297	-	2,635	2,470
Sovereign	2,246	-	445	2,691	2,931
Bank	4,463	-	6,910	11,373	10,135
Residential Mortgages	21,033	389	-	21,422	20,209
Other Retail	5,269	-	-	5,269	6,784
Retail SME	4,050	21	-	4,071	2,035
<b>Total IRB approach</b>	<b>57,438</b>	<b>4,784</b>	<b>20,616</b>	<b>82,838</b>	<b>76,398</b>
<b>Specialised Lending</b>	<b>8,016</b>	<b>720</b>	<b>233</b>	<b>8,969</b>	<b>7,993</b>
<b>Subject to Standardised approach</b>					
Corporate	-	659	-	659	711
Residential Mortgages	8,384	-	-	8,384	7,483
Other Retail	1,372	-	-	1,372	1,433
<b>Total Standardised approach</b>	<b>9,756</b>	<b>659</b>	<b>-</b>	<b>10,415</b>	<b>9,627</b>
<b>Other Assets</b>	<b>10,003</b>	<b>3,828</b>	<b>729</b>	<b>14,560</b>	<b>12,511</b>
<b>Total Gross Credit Exposures</b>	<b>85,213</b>	<b>9,991</b>	<b>21,578</b>	<b>116,782</b>	<b>106,529</b>

## 5.0 Credit Risk Measurement

### continued

APS 330 Table 7(i)

	As at 30 September 2015				For the 6 months to 30 September 2015	
	Gross Credit Exposure \$m	Impaired Facilities <sup>1</sup> \$m	Past Due > 90 days \$m	Individually Assessed Provisions <sup>1</sup> \$m	Charges for Individually Assessed Provisions <sup>1</sup> \$m	Write-offs \$m
<b>Subject to IRB approach</b>						
Corporate <sup>2</sup>	46,816	1,365	382	(649)	(230)	(3)
SME Corporate	3,413	18	16	(6)	(1)	-
Sovereign	2,835	-	-	-	-	-
Bank	11,113	-	8	-	-	-
Residential Mortgages	24,410	182	58	(4)	-	-
Other Retail	5,432	74	-	(11)	-	(27)
Retail SME	4,239	-	-	-	-	-
<b>Total IRB approach</b>	<b>98,258</b>	<b>1,639</b>	<b>464</b>	<b>(670)</b>	<b>(231)</b>	<b>(30)</b>
<b>Subject to Standardised approach</b>						
Corporate	892	-	-	-	-	-
Residential Mortgages	7,957	39	187	(10)	-	-
Other Retail	1,740	15	-	(5)	-	(16)
<b>Total Standardised approach</b>	<b>10,589</b>	<b>54</b>	<b>187</b>	<b>(15)</b>	<b>-</b>	<b>(16)</b>
<b>Other Assets<sup>3</sup></b>	<b>14,839</b>	<b>47</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>Total</b>	<b>123,686</b>	<b>1,740</b>	<b>651</b>	<b>(685)</b>	<b>(231)</b>	<b>(46)</b>

As at  
30 September  
2015  
\$m

General reserve for credit losses <sup>4</sup>	392
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<sup>1</sup> In accordance with Attachment C (Paragraph 1) APS 330, the table above excludes securitisation exposures. As at 30 September 2015, Macquarie has impaired securitised facilities of nil (31 March 2015: nil) with individually assessed provisions of nil (31 March 2015: nil), and charges for individually assessed provisions of nil for the 6 months to 30 September 2015.

<sup>2</sup> IRB Corporate includes Specialised Lending.

<sup>3</sup> Other assets impaired facilities include other real estate owned subsequent to facility foreclosure.

<sup>4</sup> The General reserve for credit losses is equivalent to the collective provisions for regulatory purposes.

#### 5.4 Credit Risk by Geographic Distribution

The credit risk exposures below have been based on a geographical split by domicile of the counterparty.

APS 330 Table 7(c)

Portfolio Type	As at 30 September 2015				
	Asia \$m	Australia \$m	EMEA* \$m	Americas \$m	Total \$m
Corporate	3,955	6,857	18,627	18,269	47,708
SME Corporate	4	3,390	19	-	3,413
Sovereign	186	2,200	249	200	2,835
Bank	913	2,533	5,155	2,512	11,113
Residential Mortgages	119	28,940	725	2,583	32,367
Other Retail	-	6,370	423	379	7,172
Retail SME	-	4,239	-	-	4,239
Other Assets	2,162	2,080	9,190	1,407	14,839
<b>Total Gross Credit Exposure</b>	<b>7,339</b>	<b>56,609</b>	<b>34,388</b>	<b>25,350</b>	<b>123,686</b>

\* EMEA represents Europe, Middle East and Africa

Portfolio Type	As at 31 March 2015				
	Asia \$m	Australia \$m	EMEA \$m	Americas \$m	Total \$m
Corporate	2,784	7,098	18,339	16,265	44,486
SME Corporate	5	3,120	29	-	3,154
Sovereign	372	1,988	298	33	2,691
Bank	877	3,154	5,990	1,352	11,373
Residential Mortgages	57	25,189	690	3,870	29,806
Other Retail	53	6,307	281	-	6,641
Retail SME	-	4,071	-	-	4,071
Other Assets	2,749	2,164	8,820	827	14,560
<b>Total Gross Credit Exposure</b>	<b>6,897</b>	<b>53,091</b>	<b>34,447</b>	<b>22,347</b>	<b>116,782</b>

## 5.0 Credit Risk Measurement

### continued

#### 5.5 Credit Risk distribution by Counterparty Type

The credit risk exposures by Basel III risk type (Portfolio Type) below have been classified on a counterparty split consistent with the Macquarie Bank Limited Consolidated financial statements.

APS 330 Table 7(d)

Portfolio Type	As at 30 September 2015				
	Financial Institution \$m	Government \$m	Corporate \$m	Retail \$m	Total \$m
Corporate	10,994	485	35,483	746	47,708
SME Corporate	-	-	2,914	499	3,413
Sovereign	2,459	376	-	-	2,835
Bank	10,799	-	314	-	11,113
Residential Mortgages	561	-	981	30,825	32,367
Other Retail	26	18	853	6,275	7,172
Retail SME	261	2	2,731	1,245	4,239
Other Assets	94	223	14,442	80	14,839
<b>Total Gross Credit Exposure</b>	<b>25,194</b>	<b>1,104</b>	<b>57,718</b>	<b>39,670</b>	<b>123,686</b>

Portfolio Type	As at 31 March 2015				
	Financial Institution \$m	Government \$m	Corporate \$m	Retail \$m	Total \$m
Corporate	10,316	480	33,118	572	44,486
SME Corporate	-	-	2,645	509	3,154
Sovereign	2,194	497	-	-	2,691
Bank	10,931	20	422	-	11,373
Residential Mortgages	403	-	741	28,662	29,806
Other Retail	107	19	463	6,052	6,641
Retail SME	220	2	2,619	1,230	4,071
Other Assets	53	194	14,243	70	14,560
<b>Total Gross Credit Exposure</b>	<b>24,224</b>	<b>1,212</b>	<b>54,251</b>	<b>37,095</b>	<b>116,782</b>

## 5.6 Credit Risk by Maturity Profile

The credit risk exposures below have been based on contractual maturity of the exposure.

APS 330 Table 7(e)

Portfolio Type	As at 30 September 2015			Total \$m
	≤1 year \$m	1 ≤ 5 years \$m	> 5 years \$m	
Corporate	20,793	19,471	7,444	47,708
SME Corporate	514	2,403	496	3,413
Sovereign	1,296	724	815	2,835
Bank	7,189	2,941	983	11,113
Residential Mortgages	1,471	1,128	29,768	32,367
Other Retail	1,282	5,351	539	7,172
Retail SME	571	3,000	668	4,239
Other Assets	6,054	5,751	3,034	14,839
<b>Total Gross Credit Exposure</b>	<b>39,170</b>	<b>40,769</b>	<b>43,747</b>	<b>123,686</b>

Portfolio Type	As at 31 March 2015			Total \$m
	≤1 year \$m	1 ≤ 5 years \$m	> 5 years \$m	
Corporate	19,327	19,346	5,813	44,486
SME Corporate	387	2,290	477	3,154
Sovereign	1,268	643	780	2,691
Bank	6,989	2,362	2,022	11,373
Residential Mortgages	1,901	1,786	26,119	29,806
Other Retail	1,452	4,736	453	6,641
Retail SME	291	3,183	597	4,071
Other Assets	7,038	6,422	1,100	14,560
<b>Total Gross Credit Exposure</b>	<b>38,653</b>	<b>40,768</b>	<b>37,361</b>	<b>116,782</b>

## 5.0 Credit Risk Measurement

### continued

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Macquarie is approved by APRA to use the Basel III Foundation Internal Ratings Based (FIRB) Approach for credit risk for its wholesale portfolios. Approval for the FIRB approach enables Macquarie to rely on its own internal estimates for some of the necessary credit risk components in determining the capital requirement for a given credit exposure. Internal estimates are used for PD and Maturity, while for wholesale exposures APRA provided estimates must be used for LGD and Exposures at Default (EAD).

A number of retail businesses have been accredited to use the Internal Ratings Based (IRB) Approach, whereby retail exposures are assigned to pools based on both borrower and transaction risk and where the PD and LGD estimates are derived from Macquarie's loss history for exposures in that pool.

Macquarie has a number of portfolios which do not have a statistically significant loss history and therefore do not qualify for the IRB approach to credit risk. Accordingly, the Standardised approach is applied to these portfolios and they are assessed periodically to determine if a change to the IRB approach can be substantiated.

Other portfolios will remain Standardised either because they are in run-off or have been approved by APRA as such. The obligors in these portfolios are not rated by any of the recognised ECAI (S&P, Moody's & Fitch) as they are primarily composed of individual borrowers or small businesses. Consequently these exposures are risk-weighted at 100%.

A summary of the applicable IRB or Standardised treatment to the Macquarie credit portfolios is set out in the table below.

Exposure Type	Approach	Treatment
All credit exposures to Corporate (including SME Corporate), Bank and Sovereign counterparties.	IRB	MQ rating is mapped to the S&P ratings scale. S&P or Moody's historical default data is used to estimate a PD for each rating grade.
All exposures subject to Supervisory Slotting Treatment.	IRB	Exposures are pooled based on MQ ratings and LGD, with APRA determined risk weights assigned to each pool.
Auto and equipment lease exposures in Australia.	IRB	Through-the-cycle pool PDs and downturn LGDs.
Macquarie originated prime Residential Mortgages in Australia.	IRB	Through-the-cycle pool PDs and downturn LGDs. The regulatory floor of 20% applies to the LGD of portfolio.
Other Residential Mortgages	Standardised	Risk Weighted per APS 112.
Credit card exposures in Australia.	Standardised	100% risk-weighted.
Personal loan exposures in Australia.	Standardised	100% risk-weighted.
Margin loan exposures in Australia.	IRB	A 20% risk-weight prescribed in APS113 Capital Adequacy: Internal Ratings-based Approach to Credit Risk is applied.
Retail investment loan exposures. The majority are capital protected.	Standardised	100% risk-weighted.

## 6.0 Calculation of Credit Risk Exposures

### 6.1 Credit Risk exposures by measurement approach

The table below sets out the gross exposures by Basel III portfolio class as required by APRA under APS 330.

APS 330 Table 7(i)

Portfolio Type	As at 30 September 2015 \$m	As at 31 March 2015 \$m
<b>Subject to IRB approach</b>		
Corporate	46,816	43,827
SME Corporate	3,413	3,154
Sovereign	2,835	2,691
Bank	11,113	11,373
Residential Mortgages	24,410	21,422
Other Retail	5,432	5,269
Retail SME	4,239	4,071
<b>Total IRB approach</b>	<b>98,258</b>	<b>91,807</b>
<b>Subject to Standardised approach</b>		
Corporate	892	659
Residential Mortgages	7,957	8,384
Other Retail	1,740	1,372
<b>Total Standardised approach</b>	<b>10,589</b>	<b>10,415</b>
<b>Other Assets<sup>1</sup></b>	<b>14,839</b>	<b>14,560</b>
<b>Total Gross Credit Exposure</b>	<b>123,686</b>	<b>116,782</b>

<sup>1</sup> The major components of Other Assets are operating lease residuals, other debtors and unsettled trades.



## 6.2 Credit Risk exposures by risk weight

The tables below detail total credit exposures by risk weight bandings for the standardised portfolio and risk weightings for specialised lending exposures.

The disclosure of Standardised exposures below shows gross credit exposures before and after the impact of risk mitigation by collateral and guarantees.

### APS 330 Table 8(b) Standardised Approach Exposures

Risk Weight	As at 30 September 2015		As at 31 March 2015	
	Total Gross Credit Exposure \$m	Gross Credit Exposure after mitigation by eligible collateral & guarantees \$m	Total Gross Credit Exposure \$m	Gross Credit Exposure after mitigation by eligible collateral & guarantees \$m
0% <sup>1</sup>	1,951	-	3,064	-
> 0% ≤ 20%	-	-	-	-
> 20% ≤ 35%	2,790	2,790	2,464	2,464
> 35% ≤ 50%	1,735	1,735	1,428	1,428
> 50% ≤ 75%	412	412	355	355
> 75% ≤ 100%	3,701	3,701	3,104	3,104
> 100% ≤ 150%	-	-	-	-
> 150%	-	-	-	-
<b>Total</b>	<b>10,589</b>	<b>8,638</b>	<b>10,415</b>	<b>7,351</b>

<sup>1</sup> 0% - RWA includes a portion of Canadian Prime Residential Mortgages. These loans are mortgage insured, with the majority guaranteed by the Canadian government.

### IRB Approach Exposures

#### Specialised lending exposures subject to supervisory slotting

Risk Weight	Gross Credit Exposure	
	As at 30 September 2015 \$m	As at 31 March 2015 \$m
70%	902	1,057
90%	2,943	2,813
115%	3,589	3,015
250%	198	122
Default <sup>1</sup>	1,724	1,962
<b>Total</b>	<b>9,356</b>	<b>8,969</b>

<sup>1</sup> Default specialised lending exposures are assessed for impairment (refer section 7).

## 6.0 Calculation of Credit Risk Exposures

### continued

#### 6.3 Credit risk exposures by Risk Grade

This section sets out the FIRB gross credit exposures split by PD for Non-Retail portfolios and Expected Loss (EL) for Retail portfolios.

The tables below provide a breakdown of gross credit exposures into each PD band for the Non-Retail portfolios under the Basel III FIRB classes of Corporate, Bank and Sovereign as shown in section 6.1.

APS 330 Table 9(d)

	As at 30 September 2015 PD Grade							Total Gross Credit Exposure \$m
	0 < 0.03% \$m	0.03% < 0.15% \$m	0.15% < 0.5% \$m	0.5% < 3% \$m	3% < 10% \$m	10% < 100% \$m	Default \$m	
<b>Non-Retail</b>								
Corporate	1,151	10,347	6,812	13,842	9,598	2,242	2,824	46,816
SME Corporate	-	-	-	2,462	746	148	57	3,413
Sovereign	2,493	129	205	4	3	1	-	2,835
Bank	3,913	5,885	658	316	56	8	277	11,113
<b>Total Gross Credit Exposure</b>	<b>7,557</b>	<b>16,361</b>	<b>7,675</b>	<b>16,624</b>	<b>10,403</b>	<b>2,399</b>	<b>3,158</b>	<b>64,177</b>

	As at 31 March 2015 PD Grade							Total Gross Credit Exposure \$m
	0 < 0.03% \$m	0.03% < 0.15% \$m	0.15% < 0.5% \$m	0.5% < 3% \$m	3% < 10% \$m	10% < 100% \$m	Default \$m	
<b>Non-Retail</b>								
Corporate	1,111	9,143	6,814	13,896	8,013	2,167	2,683	43,827
SME Corporate	-	-	3	2,268	716	119	48	3,154
Sovereign	2,341	221	119	5	3	1	1	2,691
Bank	4,609	5,862	443	319	48	9	83	11,373
<b>Total Gross Credit Exposure</b>	<b>8,061</b>	<b>15,226</b>	<b>7,379</b>	<b>16,488</b>	<b>8,780</b>	<b>2,296</b>	<b>2,815</b>	<b>61,045</b>

Included within Total Gross Credit Exposures above are exposures for undrawn commitments. These undrawn commitment exposures are set out in the following tables.

**APS330 Table 9(d) continued**

As at 30 September 2015 PD Grade								
Undrawn Commitments	0 < 0.03% \$m	0.03% < 0.15% \$m	0.15% < 0.5% \$m	0.5% < 3% \$m	3% < 10% \$m	10% < 100% \$m	Default \$m	Total \$m
Corporate	15	405	375	783	391	97	-	2,066
SME Corporate	-	-	-	265	39	6	-	310
<b>Total Undrawn Commitments</b>	<b>15</b>	<b>405</b>	<b>375</b>	<b>1,048</b>	<b>430</b>	<b>103</b>	<b>-</b>	<b>2,376</b>

As at 31 March 2015 PD Grade								
Undrawn Commitments	0 < 0.03% \$m	0.03% < 0.15% \$m	0.15% < 0.5% \$m	0.5% < 3% \$m	3% < 10% \$m	10% < 100% \$m	Default \$m	Total \$m
Corporate	-	326	577	697	621	82	7	2,310
SME Corporate	-	-	-	214	59	6	-	279
<b>Total Undrawn Commitments</b>	<b>-</b>	<b>326</b>	<b>577</b>	<b>911</b>	<b>680</b>	<b>88</b>	<b>7</b>	<b>2,589</b>

## 6.0 Calculation of Credit Risk Exposures

### continued

The tables below provide a breakdown of gross credit exposures into each EL category for the Retail portfolios under the Basel III classes of Residential Mortgages, Other Retail and Retail SME as shown in section 6.1.

**APS330 Table 9(d) continued**

	As at 30 September 2015 Expected Loss Categories					Total Gross Credit Exposure \$m
	0 < 0.1% \$m	0.1% < 0.3% \$m	0.3% < 3% \$m	3% < 10% \$m	10% < 100% \$m	
<b>Retail</b>						
Residential Mortgages	9,549	10,817	3,675	191	178	24,410
Other Retail	-	-	5,422	-	10	5,432
Retail SME	367	354	3,344	141	33	4,239
<b>Total Gross Credit Exposure</b>	<b>9,916</b>	<b>11,171</b>	<b>12,441</b>	<b>332</b>	<b>221</b>	<b>34,081</b>

	As at 31 March 2015 Expected Loss Categories					Total Gross Credit Exposure \$m
	0 < 0.1% \$m	0.1% < 0.3% \$m	0.3% < 3% \$m	3% < 10% \$m	10% < 100% \$m	
<b>Retail</b>						
Residential Mortgages	8,394	9,576	3,116	175	161	21,422
Other Retail	-	-	5,253	-	16	5,269
Retail SME	305	301	3,349	84	32	4,071
<b>Total Gross Credit Exposure</b>	<b>8,699</b>	<b>9,877</b>	<b>11,718</b>	<b>259</b>	<b>209</b>	<b>30,762</b>

Included within Total Gross Credit Exposures above are exposures for undrawn commitments. These undrawn commitment exposures are set out in the following tables.

**APS330 Table 9(d) continued**

	As at 30 September 2015 Expected Loss Categories					Total \$m
	0 < 0.1% \$m	0.1% < 0.3% \$m	0.3% < 3% \$m	3% < 10% \$m	10% < 100% \$m	
<b>Undrawn Commitments</b>						
Residential Mortgages	307	59	67	1	-	434
Other Retail	-	-	-	-	-	-
Retail SME	16	6	-	-	-	22
<b>Total Undrawn Commitments</b>	<b>323</b>	<b>65</b>	<b>67</b>	<b>1</b>	<b>-</b>	<b>456</b>

	As at 31 March 2015 Expected Loss Categories					Total \$m
	0 < 0.1% \$m	0.1% < 0.3% \$m	0.3% < 3% \$m	3% < 10% \$m	10% < 100% \$m	
<b>Undrawn Commitments</b>						
Residential Mortgages	326	62	1	-	-	389
Other Retail	-	-	-	-	-	-
Retail SME	17	-	-	-	-	17
<b>Total Undrawn Commitments</b>	<b>343</b>	<b>62</b>	<b>1</b>	<b>-</b>	<b>-</b>	<b>406</b>

## 7.0 Provisioning

### 7.1 Impaired Facilities and Past Due

Impaired facilities are financial assets (including both on and off balance sheet exposures) where there is doubt regarding the collectability of some or all of the contractual payments due from a counterparty. The contractual payments include principal outstanding, interest and other related charges.

Exposures will be assessed for impairment where there is objective evidence of impairment. Objective evidence of impairment may include market, economic or legal factors impacting upon the ability of a counterparty to meet their repayment obligations. The assessment process consists of a comparison of the carrying value of the exposure and the present value of its estimated future cash flows (recoverable amount).

The estimation of expected future cash flows takes into consideration:

- external valuations of the asset (taking into account the value of any security held);
- costs of recovery; and
- the timeframe for realisation of recovery and/or sale of security.

The estimated future cash flows are discounted at the original effective interest rate to determine the recoverable amount of the financial asset.

Facilities that are more than 90 calendar days past contractual due date can be classified as either:

- impaired facility if it meets the criteria for impairment as detailed above; or
- past due where the facility is assessed as well secured.

For the purposes of this report, past dues represent the full amount outstanding, not just the amount that is past due.

### 7.2 Individually Assessed Provisions

Facilities that are assessed as impaired are subject to a recoverability test. Individually assessed provisions are calculated in accordance with Australian Accounting Standards and are recognised as the difference between the carrying value of the exposure and the present value of expected future cash flows, discounted using the original effective interest rate.

### 7.3 Collective Provisions

Facilities for which no individually assessed provision is required are assessed collectively for impairment. Collective provisions are calculated in accordance with Australian Accounting Standards and are representative of credit losses that have been incurred but not yet specifically identified. For Wholesale and Retail IRB facilities, the collective provision calculation applies the PD and LGD estimates to the EAD. For other facilities, assets are placed into portfolios with similar characteristics and assessed against parameters based on historical loss experience. The historical loss experience is adjusted, where appropriate, for current circumstances, trends and conditions which may affect portfolio recoverability over a period of time.

### 7.4 Regulatory Expected Loss (REL)

REL represents the estimated future credit losses expected to be incurred in a portfolio. Similar to collective provisions, REL is calculated as a function of the outstanding exposure, PD and LGD. LGDs are defined by APRA for Corporate, Bank, Sovereign and Specialised Lending exposures. For the remaining IRB exposures for which REL is required to be calculated, the LGD is based on historical loss experience using economic downturn scenario assumptions.

The excess of REL over eligible provisions is required by APRA to be deducted from Common Equity Tier 1 capital. Eligible provisions include individually assessed provisions and collective provisions. As at 30 September 2015, the total REL was \$2,154 million (31 March 2015: \$1,959 million), with the excess of REL over eligible provisions resulting in a Common Equity Tier 1 deduction of \$259 million (31 March 2015: \$263 million).

## 7.5 Impaired facilities and individually assessed provisions reconciliation

The disclosures of impaired facilities in this report are presented on a basis consistent with APS220 Credit Quality. APS220 applies a broader definition of impaired facilities than the definition applied by Australian Accounting Standards. A reconciliation of the APS220 impaired facilities to MBL consolidated financial statements – impaired loans and other financial assets is provided below:

	As at 30 September 2015		As at 31 March 2015	
	Impaired Facilities \$m	Individually Assessed Provisions \$m	Impaired Facilities \$m	Individually Assessed Provisions \$m
Total - APS220 impaired facilities	1,740	685	1,545	575
Impaired debt investment securities <sup>1</sup>	-	-	(3)	(3)
Impaired loans without provisions <sup>2</sup>	(339)	-	(271)	-
Real estate and other assets acquired through security enforcement <sup>3</sup>	(37)	-	(79)	-
Off balance sheet exposures	(8)	-	(8)	-
Other exposures	11	8	6	5
<b>Total – Impaired loans &amp; other financial assets with individually assessed provisions for impairment per MBL consolidated financial statements</b>	<b>1,367</b>	<b>693</b>	<b>1,190</b>	<b>577</b>

<sup>1</sup> Disclosed separately in MBL consolidated financial statements. These exposures are included in IRB - Other in other tables in this section.

<sup>2</sup> Comprises secured exposures where no loss is anticipated, and which are not impaired in the MBL consolidated financial statements. Collective provisions of \$25 million (\$73 million as at 31 March 2015) relating to these exposures which are treated as individually assessed provisions for regulatory purposes, are not presented in this table (refer to section 7.8).

<sup>3</sup> Real estate and other assets acquired through security enforcement are classified as Other Assets in the MBL consolidated financial statements and in other tables in this section.

## 7.0 Provisioning

### continued

#### 7.6 Provisions by Counterparty Type

The table below details impaired facilities, past due and individually assessed provisions.

APS 330 Table 7(f)

	As at 30 September 2015			As at 31 March 2015		
	Impaired Facilities \$m	Past Due >90 days \$m	Individually Assessed Provisions \$m	Impaired Facilities \$m	Past Due >90 days \$m	Individually Assessed Provisions \$m
<b>Subject to IRB approach</b>						
Corporate	1,365	382	(649)	1,106	755	(526)
SME Corporate	18	16	(6)	22	7	(7)
Bank	-	8	-	-	46	-
Residential Mortgages	182	58	(4)	175	50	(4)
Other Retail	74	-	(11)	49	-	(13)
<b>Total IRB approach</b>	<b>1,639</b>	<b>464</b>	<b>(670)</b>	<b>1,352</b>	<b>858</b>	<b>(550)</b>
<b>Subject to Standardised approach</b>						
Residential Mortgages	39	187	(10)	47	101	(13)
Other Retail	15	-	(5)	19	4	(5)
<b>Total Standardised approach</b>	<b>54</b>	<b>187</b>	<b>(15)</b>	<b>66</b>	<b>105</b>	<b>(18)</b>
<b>Other Assets</b>	<b>47</b>	<b>-</b>	<b>-</b>	<b>127</b>	<b>-</b>	<b>(7)</b>
<b>Total</b>	<b>1,740</b>	<b>651</b>	<b>(685)</b>	<b>1,545</b>	<b>963</b>	<b>(575)</b>



APS 330 Table 9(e)

	For the 6 months to 30 September 2015		For the 6 months to 31 March 2015	
	Charges for Individually Assessed provisions \$m	Write-offs \$m	Charges for Individually Assessed provisions \$m	Write-offs \$m
<b>Subject to IRB approach</b>				
Corporate	(230)	(3)	(239)	(3)
SME Corporate	(1)	-	(3)	-
Other Retail	-	(27)	(4)	(19)
<b>Total IRB approach</b>	<b>(231)</b>	<b>(30)</b>	<b>(246)</b>	<b>(22)</b>
<b>Subject to Standardised approach</b>				
Residential Mortgages	-	-	(1)	-
Other Retail	-	(16)	(6)	(16)
<b>Total Standardised approach</b>	<b>-</b>	<b>(16)</b>	<b>(7)</b>	<b>(16)</b>
<b>Total</b>	<b>(231)</b>	<b>(46)</b>	<b>(253)</b>	<b>(38)</b>

## 7.0 Provisioning

### continued

#### 7.7 Provisions by Geographic Region

The tables below split impaired facilities, past due and provisions by geographic region. Note that the geographic split has been based on the domicile of the risk counterparty.

APS 330 Table 7(g)

Geographic Region	As at 30 September 2015			
	Impaired Facilities \$m	Past due > 90 days \$m	Individually Assessed Provisions \$m	Collective Provisions \$m
Australia	521	368	(150)	(202)
EMEA	241	197	(72)	(75)
Americas	907	86	(410)	(138)
Asia	71	-	(53)	(2)
<b>Total</b>	<b>1,740</b>	<b>651</b>	<b>(685)</b>	<b>(417)</b>

Geographic Region	As at 31 March 2015			
	Impaired Facilities \$m	Past due > 90 days \$m	Individually Assessed Provisions \$m	Collective Provisions \$m
Australia	549	315	(182)	(183)
EMEA	268	145	(39)	(61)
Americas	664	503	(306)	(145)
Asia	64	-	(48)	(3)
<b>Total</b>	<b>1,545</b>	<b>963</b>	<b>(575)</b>	<b>(392)</b>

## 7.8 General reserve for credit losses

### APS 330 Table 7(j)

	As at 30 September 2015 \$m	As at 31 March 2015 \$m
Collective provisions	417	392
Collective provisions treated as individually assessed provisions for regulatory purposes	(25)	(73)
Net collective provisions for regulatory purposes <sup>1</sup>	392	319
Tax effect	(118)	(96)
<b>General reserve for credit losses</b>	<b>274</b>	<b>223</b>

<sup>1</sup> The general reserve for credit losses is equivalent to the net collective provisions for regulatory purposes.

## 7.0 Provisioning

### continued

#### 7.9 Movement in Provisions

The table below shows the movement of provisions over the 6 months to 30 September 2015.

APS 330 Table 7(h)

	\$m
<b>Total Provisions as at 31 March 2015</b>	<b>967</b>
<b>Collective Provisions</b>	
Balance at start of the period	392
Provided for during the period	89
Written back during the period	(78)
Adjustments for foreign exchange fluctuations	14
<b>Total Collective Provisions</b>	<b>417</b>
<b>Individually Assessed Provisions</b>	
Balance at start of the period	575
Charge to income statement	231
Assets written off, previously provided for	(134)
Recovery of loans, previously provided for	(14)
Adjustments for foreign exchange fluctuations	27
<b>Total Individually Assessed Provisions</b>	<b>685</b>
<b>Total Provisions as at 30 September 2015</b>	<b>1,102</b>

## 7.10 Analysis of expected credit model performance versus actual results

The table below relates only to Macquarie's portfolios measured under the IRB approach and compares actual results to the average estimate over the January 2008 to September 2015 period.

APS 330 Table 9(f)

Portfolio Type	PD		Exposure at default	LGD	
	Estimated %	Actual %	Estimate to Actual Ratio	Estimated %	Actual %
Corporate	1.40	0.77	N/A*	N/A*	N/A*
SME Corporate	2.24	1.28	N/A*	N/A*	N/A*
Sovereign	0.03	0.00	N/A*	N/A*	N/A*
Bank	0.08	0.00	N/A*	N/A*	N/A*
Residential Mortgages	1.20	1.30	100%	20.56	4.91
Other Retail	1.44	1.33	113%	47.44	30.10

- \* Macquarie is accredited under the Foundation Internal Ratings Based Approach (FIRB). As the LGD and EAD assumptions under FIRB are set by APRA for these portfolio types, disclosure of actual against estimates does not facilitate meaningful assessment of the performance of internal rating processes for these portfolios.

## 8.0 Credit Risk Mitigation

### 8.1 Netting

Netting arises where a single legal obligation is created covering all transactions included in a netting agreement. The most common form of netting which Macquarie applies for these purposes is close-out netting.

Netting is applied to a counterparty balance only when appropriate documentation governing transactions between the Macquarie entity and the counterparty has been entered into. Legal Risk Management has confirmed that it is legally effective to net with that counterparty, and APRA ADI Prudential Standard APS 112 Capital Adequacy: Standardised Approach to Credit Risk (APS 112), has been complied with.

#### 8.1.1 Collateral Valuation and Management

RMG Credit limits are set and the related exposures are calculated before taking any non-cash collateral into consideration other than for securities finance transactions where liquid financial instruments are an inherent part of the lending arrangement. Typically collateral is required for all but short-dated, vanilla trading activity.

A wide variety of collateral can be accepted depending on the counterparty and the nature of the exposure. Some of the most common forms are charges over:

- cash or gold deposits;
- debt or equity securities;
- company assets; and
- commercial or residential property.

Guarantees are frequently requested from banks, parent or associated companies. Relative ratings between the obligor and guarantor are monitored as part of the regulatory capital calculation process as mitigation will cease to be eligible if the rating of the guarantor falls below that of the underlying obligor. Collateral taken in the form of tradeable securities is revalued daily by the same application systems which are used to trade those particular products. Credit default swaps are not a common form of credit risk mitigation. Macquarie policies ensure that all security is taken in conjunction with a formal written agreement which gives Macquarie direct and unconditional rights over the collateral in the event of default by the obligor.

To mitigate credit risk Macquarie makes frequent use of margining arrangements. In these cases, counterparties post collateral daily in the form of cash or liquid securities to cover outstanding trading positions. Macquarie also engages in reciprocal margining agreements with counterparties under ISDA or similar agreements where the Credit Support Annex can contain provisions whereby margining thresholds may vary in relation to the credit ratings of the respective parties. These thresholds are incorporated into one of the scenarios considered under the MGL Group liquidity policy which assesses the collateral and funding requirements in the event of a credit downgrade.

This is part of the general requirement of the MGL Group to be able to meet all obligations for a period of twelve months under both an individual and combined name and systemic challenge. The resultant increase in collateral requirements is included as an outflow in the scenarios - explicitly ensuring that Macquarie has sufficient funding coverage in this event.

Specific protocols surround the acceptance of real estate as collateral.

Prior to acceptance, any independent valuation must undergo a formal review process by which it is assessed for quality and adherence to policy and standing instructions. The escalation of this review and acceptance process will depend on:

- the type of property being valued;
- the dollar value of the property being valued; and
- the proposed loan-to-value ratio (LVR).

The value of all real estate collateral is assessed regularly and is re-valued where appropriate. The interval between re-valuation is contingent on the type of property, extent of the property's encumbrance, the LVR at origination and the market conditions that have prevailed since the valuation was conducted. All prior claims on the property collateral are recorded and taken into consideration when calculating the available security value.

All details regarding security together with netting/margining rules are recorded in collateral management systems which support the operational control framework.

#### 8.1.2 Wrong Way Risk

Specific wrong-way risk occurs when exposure to the counterparty is positively correlated with the counterparty's probability of default. General wrong-way risk occurs when the probabilities of counterparty defaults are positively correlated with market risk factor movements. Macquarie considers these correlations as part of the credit assessment process.

## 8.2 Exposures Mitigated by Eligible Collateral

Eligible financial collateral is defined in APS 112 as cash, certificates of deposit, bank bills, certain rated debt issues and listed equities. Other items that are eligible for recognition as collateral include mortgages over commercial or residential real estate (subject to the satisfaction of certain requirement listed in APS113).

As noted above, Macquarie takes a wide range of collateral of which only a portion is eligible under APS 112. All collateral is recorded in appropriate systems with clear definition by type and eligibility status. Ineligible collateral under APRA standards is excluded from the capital calculation process.

Some types of collateral which are eligible by definition may be determined to be ineligible or adjusted with an

appropriate haircut at the time of calculation due to mismatches of maturity or currency between the collateral and the underlying exposures.

For capital adequacy purposes, eligible cash collateral is considered in calculating the capital requirement. For non-cash collateral, a regulatory haircut is applied to both the gross credit exposure and the value of the collateral, and these adjusted amounts are used as the basis of calculating the capital requirement.

The tables below show gross credit exposures by Basel III portfolio (Corporate, Sovereign and Bank) under the FIRB and Standardised approach and the amount of risk exposure which is mitigated by APRA defined eligible collateral, guarantees or credit derivatives.

APS 330 Table 10(b) & (c)

Measurement Approach	As at 30 September 2015			
	Total Gross Credit Exposure \$m	Eligible Financial Collateral \$m	Other Eligible Collateral \$m	Exposures Covered by Guarantees \$m
<b>Subject to IRB approach</b>				
Corporate	46,816	1,564	1	2,124
SME Corporate	3,413	38	674	-
Sovereign	2,835	85	-	3
Bank	11,113	1,491	-	377
<b>Total IRB approach</b>	<b>64,177</b>	<b>3,178</b>	<b>675</b>	<b>2,504</b>

Measurement Approach	As at 31 March 2015			
	Total Gross Credit Exposure \$m	Eligible Financial Collateral \$m	Other Eligible Collateral \$m	Exposures Covered by Guarantees \$m
<b>Subject to IRB approach</b>				
Corporate	43,827	1,188	58	770
SME Corporate	3,154	43	654	-
Sovereign	2,691	26	-	6
Bank	11,373	1,240	-	432
<b>Total IRB approach</b>	<b>61,045</b>	<b>2,497</b>	<b>712</b>	<b>1,208</b>

## 8.0 Credit Risk Mitigation

### continued

APS 330 Table 11(b)

	As at 30 September 2015 \$m
<b>Credit equivalent amounts for counterparty exposures</b>	
Replacement cost	17,897
Potential future exposure	12,692
Gross credit equivalent amount	30,589
<i>Comprising:</i>	
Interest rate contracts	3,938
Credit derivative contracts	328
Equity contracts	1,974
Foreign exchange and gold contracts	10,252
Commodities and precious metals contracts	14,097
Gross credit equivalent amount	30,589
Less: Effect of netting arrangements	(14,806)
Credit equivalent amount after netting	15,783
Less: Collateral amount	
Eligible financial collateral	(2,931)
Other eligible collateral	-
<b>Net credit equivalent amount</b>	<b>12,852</b>

APS 330 Table 11(c)

	As at 30 September 2015	
Notional amount of credit derivatives	Protection Bought \$m	Protection Sold \$m
Own credit portfolio	3,347	5,425
Client intermediation activities	-	-
<b>Total</b>	<b>3,347</b>	<b>5,425</b>
Credit default swaps (CDS)	3,181	4,573
Total return swaps	166	852
<b>Total</b>	<b>3,347</b>	<b>5,425</b>



## 9.0 Securitisation

### 9.1 Overview

A securitisation is defined by APRA ADI Prudential Standard APS 120 Securitisation (APS 120) as “a structure where the cash flow from a pool is used to service obligations to at least two different tranches or classes of creditors (typically holders of debt securities), with each class or tranche reflecting a different degree of credit risk (i.e. one class of creditors is entitled to receive payments from the pool before another class of creditors).”

Macquarie engages in a range of activities in the securitisation market, including playing the following roles:

- Originator, Arranger, Manager and Servicer on Macquarie mortgage and auto and equipment finance securitisation programs;
- Lead Manager on Macquarie originated and third party securitisations;
- Swap Counterparty to Macquarie originated and third party securitisations;
- Warehouse facility provider to several third-party originators;
- Liquidity facility provider to several third-party originators and provider of redraw facilities to all Macquarie Mortgage SPVs; and
- Investor in third-party securitisation transactions.

Macquarie has also established contingent liquidity securitisation SPVs that issue and hold Residential Mortgage Backed Securities (RMBS) eligible for repurchase with the RBA.

Macquarie may, as sponsor, use the following types of special purpose vehicles to securitise third-party exposures:

- trusts, and
- special purpose companies,

issuing RMBS or asset-backed securities (ABS).

Following are the affiliated entities which Macquarie manages or advises and which can invest either in the securitisation exposures that Macquarie has securitised or in SPVs in relation to whom Macquarie performs any of the above roles:

- Macquarie Enhanced Australian Fixed Interest Fund;
- Macquarie Life Superannuation Approved Deposit Fund;
- Macquarie Diversified Fixed Interest Fund
- Macquarie True Index Cash Fund;
- Macquarie True Index Sovereign Bond Fund;
- Macquarie Global Income Opportunities Fund;
- Macquarie Income Opportunities Fund;
- Macquarie Australian Diversified Income Fund;
- Macquarie Australian Diversified Income (High Grade) Fund;
- Macquarie Debt Markets Opportunity Fund No 2; and

- Macquarie Core Australian Fixed Interest Fund;

Any investments by these entities (if any) in securitisation exposures that Macquarie has securitised or sponsored does not form a majority of their investment portfolios and their investment represents a small percentage of the relevant securitisation issue.

#### 9.1.1 Securitisation Risk Management

RMG is responsible for overseeing the management of the risk arising from all securitisation exposures. RMG approves all securitisation transactions and exposures arising from securitisation activity. RMG Prudential, Capital & Markets (PCM) reviews transactions where Macquarie acts as originator, manager or sponsor to ensure compliance with APS 120 and other regulations. RMG Credit sets limits on securitisation exposures and reviews transactions to identify all risks involved. RMG Market Risk reviews market exposures associated with securitisations, such as swaps, and other exposures held in the trading book. Macquarie's primary risk mitigant is the limit framework and approval process governing exposures to securitisations.

In addition to credit risk, securitised assets can be subject to liquidity risk, interest rate risk, and in some instances FX risk. The nature and scale of these risks varies from transaction to transaction. All securitised assets are subject to a degree of operational risk associated with documentation and the collection of cashflows.

Securitisation exposures are measured daily and monitored by RMG. RMG completes an annual review of all securitisation exposures and limits. Regulatory capital is calculated on all securitisation exposures using the available approaches in APS116 and APS 120 and economic capital is calculated on all securitisation exposures across the Macquarie Bank Group.

Macquarie applies the following approaches to the calculation of regulatory capital for securitisation exposures:

- the Ratings Based approach;
- the Inferred Ratings Based approach;
- the supervisory formula; and
- the approach for eligible facilities under APS 120 Attachment D paragraph 39.

If the exposure is not covered by one of the above approaches it is assigned a 1250% risk weight.

S&P, Moody's and Fitch Ratings have all been used to rate Macquarie securitisations. They have been used to rate notes and commercial paper issued by Macquarie securitisation and Commercial Paper programs.

Mitigation of credit risk on securitisation exposures is performed in accordance with Macquarie's overall credit risk mitigation policy. Details of the policy can be found in section 8.0 of this disclosure.

## 9.0 Securitisation

### continued

#### 9.1.2 Accounting for Securitisation

Securitisation transactions undertaken by Macquarie are accounted for in accordance with Australian Accounting Standards (AAS). As noted above, securitised positions are managed in a number of SPVs.

Where these SPVs are deconsolidated for regulatory purposes under APS 120, they still need to be assessed under AAS to determine whether these SPVs should be considered part of the consolidated accounting group.

In Macquarie's case, it has been determined that under accounting rules, Macquarie should consolidate Macquarie mortgage SPVs and auto and equipment finance SPVs. The assets and liabilities in these SPVs detailed in the tables within this section are consolidated into the Macquarie accounting consolidated group. However in most cases, these SPVs are deconsolidated for APRA reporting purposes.

Banking book securitised assets consolidated by Macquarie are held on the balance sheet at amortised cost. Macquarie accounts for securitisation transactions at fair value, which means that no gain or loss is booked on the sale of the mortgage assets to the SPVs. Securitised exposures in the trading book are held at market value. There has been no material change to the methods of valuation from the prior period.

If there are circumstances where Macquarie is required to provide financial support for securitised assets, a relevant liability is recognised on the Bank's balance sheet. Where no current liability exists, but could in the future, the likelihood of this arising is assessed and a contingent liability disclosed as required. This does not give rise to an actual liability being recognised on the Bank's balance sheet.

Further information on accounting policies as they relate to securitisation exposures, including key assumptions and inputs to valuation processes, can be found in the Macquarie Bank Limited annual report.

## 9.2 Securitisation Exposures

### 9.2.1 Originating ADI Securitisation Exposures

The table below sets out the assets originated or sponsored by Macquarie where the exposures have subsequently been securitised.

#### APS 330 Table 12(g) and (o)

Exposure type – Traditional	As at 30 September 2015		
	Total outstanding exposures securitised		
	ADI originated assets <sup>1</sup>	ADI as sponsor <sup>2</sup>	Other
	\$m	\$m	\$m
<b>Banking Book</b>			
Residential Mortgages	20,791	344	-
Credit cards and other personal loans	-	-	-
Auto and equipment finance	7,675	-	-
<b>Total Banking Book</b>	<b>28,466</b>	<b>344</b>	<b>-</b>
<b>Trading Book</b>			
Residential Mortgages	-	-	-
Credit cards and other personal loans	-	-	-
Auto and equipment finance	-	-	-
Other	-	-	-
<b>Total Trading Book</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>Total</b>	<b>28,466</b>	<b>344</b>	<b>-</b>

<sup>1</sup> Included in the above are assets of \$27,725m in securitisation entities where Macquarie continues to hold capital behind the underlying pool of securitised assets in Bank regulatory Group

<sup>2</sup> Included in the above are exposures held in third party warehouse funding facilities.

Exposure type – Traditional	As at 31 March 2015		
	Total outstanding exposures securitised		
	ADI originated assets <sup>1</sup>	ADI as sponsor <sup>2</sup>	Other
	\$m	\$m	\$m
<b>Banking Book</b>			
Residential Mortgages	19,064	401	-
Credit cards and other personal loans	-	-	-
Auto and equipment finance	7,786	-	-
<b>Total Banking Book</b>	<b>26,850</b>	<b>401</b>	<b>-</b>
<b>Trading Book</b>			
Residential Mortgages	-	-	-
Credit cards and other personal loans	-	-	-
Auto and equipment finance	-	-	-
Other	-	-	-
<b>Total Trading Book</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>Total</b>	<b>26,850</b>	<b>401</b>	<b>-</b>

<sup>1</sup> Included in the above are assets of \$25,617m in securitisation entities where Macquarie continues to hold capital behind the underlying pool of securitised assets in Bank regulatory Group.

<sup>2</sup> Included in the above are exposures held in third party warehouse funding facilities.

## 9.0 Securitisation

### continued

#### 9.2.2 Performance of assets securitised

The assets below have been originated and securitised by Macquarie. The table below identifies the total exposures and impairment of these assets.

APS 330 Table 12(h)

Exposure type	As at 30 September 2015			
	Total outstanding exposures securitised			ADI recognised loss from exposures securitised \$m
	Total outstanding exposures <sup>1</sup> \$m	Impaired <sup>2</sup> \$m	Past due <sup>3</sup> \$m	
Residential Mortgages	20,791	201	67	-
Credit cards and other personal loans	-	-	-	-
Auto and equipment finance	7,675	58	-	-
<b>Total</b>	<b>28,466</b>	<b>259</b>	<b>67</b>	<b>-</b>

<sup>1</sup> Included in the above are assets of \$27,725m in securitisation entities where Macquarie continues to hold capital behind the underlying pool of securitised assets in Bank regulatory Group.

<sup>2</sup> Included in the above are impaired facilities of \$236m in securitisation entities where Macquarie continues to hold capital behind the underlying pool of securitised assets in Bank regulatory Group.

<sup>3</sup> Included in the above are past due facilities of \$60m in securitisation entities where Macquarie continues to hold capital behind the underlying pool of securitised assets in Bank regulatory Group.

Exposure type	As at 31 March 2015			
	Total outstanding exposures securitised			ADI recognised loss from exposures securitised \$m
	Total outstanding exposures <sup>1</sup> \$m	Impaired <sup>2</sup> \$m	Past due <sup>3</sup> \$m	
Residential Mortgages	19,064	202	63	-
Credit cards and other personal loans	-	-	-	-
Auto and equipment finance	7,786	32	-	-
<b>Total</b>	<b>26,850</b>	<b>234</b>	<b>63</b>	<b>-</b>

<sup>1</sup> Included in the above are assets of \$25,617m in securitisation entities where Macquarie continues to hold capital behind the underlying pool of securitised assets in Bank regulatory Group.

<sup>2</sup> Included in the above are impaired facilities of \$171m in securitisation entities where Macquarie continues to hold capital behind the underlying pool of securitised assets in Bank regulatory Group.

<sup>3</sup> Included in the above are past due facilities of \$50m in securitisation entities where Macquarie continues to hold capital behind the underlying pool of securitised assets in Bank regulatory Group.

### 9.2.3 Summary of outstanding exposures intended to be securitised

#### APS 330 Table 12(i) and (p)

MBL may securitise assets depending on a variety of factors, including market conditions and business requirements. The table below sets out identified assets as at the reporting date which are intended to be put into term securitisation deals.

Exposure type	As at 30 September 2015 \$m	As at 31 March 2015 \$m
<b>Banking Book</b>		
Residential Mortgages	-	624
Credit cards and other personal loans	-	-
Auto and equipment finance	279	-
<b>Total Banking Book</b>	<b>279</b>	<b>624</b>
<b>Trading Book</b>	-	-
Residential Mortgages	-	-
Credit cards and other personal loans	-	-
Auto and equipment finance	-	-
<b>Total Trading Book</b>	<b>-</b>	<b>-</b>

## 9.0 Securitisation

### continued

#### 9.2.4 Securitisation activity

Over the 6 months to 30 September 2015, Macquarie has undertaken the following securitisation activity. Macquarie may or may not retain an exposure to securitisation SPVs to which Macquarie has sold assets.

#### APS 330 Table 12(j) and (q)

Exposure type	As at 30 September 2015		Recognised gain or loss on sale \$m
	Value of loans sold or originated into securitisation		
	ADI originated \$m	ADI as sponsor \$m	
<b>Banking Book</b>			
Residential Mortgages	7,359	-	-
Credit cards and other personal loans	-	-	-
Auto and equipment finance <sup>1</sup>	2,610	-	-
Other	36	-	-
<b>Total Banking Book</b>	<b>10,005</b>	<b>-</b>	<b>-</b>
<b>Trading Book</b>			
Residential Mortgages	-	-	-
Credit cards and other personal loans	-	-	-
Auto and equipment finance	-	-	-
<b>Total Trading Book</b>	<b>-</b>	<b>-</b>	

<sup>1</sup> Exposures included in Auto and equipment finance that have been transferred from warehouse structures to term structures, may also have been originated to the warehouse within the same period. This would result in those exposures being included twice.

Exposure type	As at 31 March 2015		Recognised gain or loss on sale \$m
	Value of loans sold or originated into securitisation		
	ADI originated \$m	ADI as sponsor \$m	
<b>Banking Book</b>			
Residential Mortgages	7,824	-	-
Credit cards and other personal loans	-	-	-
Auto and equipment finance <sup>1</sup>	4,145	-	-
Other	-	-	-
<b>Total Banking Book</b>	11,969	-	-
<b>Trading Book</b>			
Residential Mortgages	-	-	-
Credit cards and other personal loans	-	-	-
Auto and equipment finance	-	-	-
<b>Total Trading Book</b>	-	-	-

<sup>1</sup> Exposures included in Auto and equipment finance that have been transferred from warehouse structures to term structures, may also have been originated to the warehouse within the same period. This would result in those exposures being included twice.

Originating ADI Securitisation Exposures  
APS 330 Table 12(r) – Trading Book

Exposure type	As at 30 September 2015			
	Total outstanding exposures securitised			
	Standard Method		IMA Method	
	Traditional \$m	Synthetic \$m	Traditional \$m	Synthetic \$m
Residential Mortgages	-	-	-	-
Credit cards and other personal loans	-	-	-	-
Auto and equipment finance	-	-	-	-
Other	-	-	-	-
<b>Total</b>	-	-	-	-

Originating ADI Securitisation Exposures  
APS 330 Table 12(r) – Trading Book

Exposure type	As at 31 March 2015			
	Total outstanding exposures securitised			
	Standard Method		IMA Method	
	Traditional \$m	Synthetic \$m	Traditional \$m	Synthetic \$m
Residential Mortgages	-	-	-	-
Credit cards and other personal loans	-	-	-	-
Auto and equipment finance	-	-	-	-
Other	-	-	-	-
<b>Total</b>	-	-	-	-

## 9.0 Securitisation

### continued

#### 9.3 Exposures arising from Securitisation Activity by asset type

9.3.1 This table sets out the on and off balance sheet securitisation exposures originated or purchased, broken down by asset type.

##### APS 330 Table 12(k) and (s)

Exposure type	As at 30 September 2015		
	Total outstanding exposures securitised <sup>1</sup>		
	On balance sheet \$m	Off balance sheet \$m	Total exposures \$m
<b>Banking Book</b>			
Residential Mortgages	22,001	419	22,420
Credit cards and other personal loans	-	-	-
Auto and equipment finance	7,776	-	7,776
Other	390	6	396
<b>Total Banking Book</b>	<b>30,167</b>	<b>425</b>	<b>30,592</b>
<b>Trading Book</b>			
Residential Mortgages	-	21	21
Credit cards and other personal loans	-	-	-
Auto and equipment finance	-	-	-
Other	-	135	135
<b>Total Trading Book</b>	<b>-</b>	<b>156</b>	<b>156</b>

<sup>1</sup> Included in the above are assets of \$27,725m in securitisation entities where Macquarie continues to hold capital behind the underlying pool of securitised assets in Bank regulatory Group.

Exposure type	As at 31 March 2015		
	Total outstanding exposures securitised <sup>1</sup>		
	On balance sheet \$m	Off balance sheet \$m	Total exposures \$m
<b>Banking Book</b>			
Residential Mortgages	19,744	604	20,348
Credit cards and other personal loans	-	-	-
Auto and equipment finance	7,868	-	7,868
Other	433	28	461
<b>Total Banking Book</b>	<b>28,045</b>	<b>632</b>	<b>28,677</b>
<b>Trading Book</b>			
Residential Mortgages	-	39	39
Credit cards and other personal loans	-	4	4
Auto and equipment finance	-	1	1
Other	-	35	35
<b>Total Trading Book</b>	<b>-</b>	<b>79</b>	<b>79</b>

<sup>1</sup> Included in the above are assets of \$25,617m in securitisation entities where Macquarie continues to hold capital behind the underlying pool of securitised assets in Bank regulatory Group.



### 9.3.2 Exposure by Risk Weight band

#### Banking Book

#### APS 330 Table 12(l)

Risk weight band	As at 30 September 2015					
	Gross Credit Exposure			Risk Weighted Assets		
	Securitisation \$m	Resecuritisation \$m	Total \$m	Securitisation \$m	Resecuritisation \$m	Total \$m
=< 25%	2,427	207	2,634	175	41	216
>25%=<35%	60	-	60	21	-	21
>35%=<50%	22	-	22	11	-	11
>50%=<75%	50	-	50	37	-	37
>75%=<100%	17	2	19	17	2	19
>100%=<650%	50	-	50	211	-	211
1250%	21	-	21	269	-	269
CET1 deduction <sup>1</sup>	26	-	26	-	-	-
<b>Total</b>	<b>2,673</b>	<b>209</b>	<b>2,882</b>	<b>741</b>	<b>43</b>	<b>784</b>

<sup>1</sup> \$26m of exposures and credit enhancements were deducted entirely from CET1, being \$8m of subordinated notes in third party securitisations exposed to the first 10% of credit losses in the initial structure of those securitisations and \$18m of other securitisation deductions.

#### Trading Book

#### APS 330 Table 12(t)

Risk weight band	Gross Credit Exposures As at 30 September 2015				
	IAA Approach	RBA Approach	SFA Approach	Standardised Approach	Total Exposures
	\$m	\$m	\$m	\$m	\$m
=< 25%	-	-	-	156	156
>25%=<35%	-	-	-	-	-
>35%=<50%	-	-	-	-	-
>50%=<75%	-	-	-	-	-
>75%=<100%	-	-	-	-	-
>100%=<650%	-	-	-	-	-
1250%	-	-	-	-	-
<b>Total</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>156</b>	<b>156</b>

## 9.0 Securitisation

### continued

#### Banking Book

##### APS 330 Table 12(l)

Risk weight band	As at 31 March 2015					
	Gross Credit Exposure			Risk Weighted Assets		
	Securitisation \$m	Resecuritisation \$m	Total \$m	Securitisation \$m	Resecuritisation \$m	Total \$m
=< 25%	2,600	217	2,817	191	43	234
>25%=<35%	57	2	59	20	1	21
>35%=<50%	31	-	31	15	-	15
>50%=<75%	61	-	61	46	-	46
>75%=<100%	15	2	17	15	2	17
>100%=<650%	52	-	52	216	-	216
1250%	8	6	14	102	78	180
<b>Total</b>	<b>2,824</b>	<b>227</b>	<b>3,051</b>	<b>605</b>	<b>124</b>	<b>729</b>

#### Trading Book

##### APS 330 Table 12(t)

Risk weight band	Gross Credit Exposures As at 31 March 2015				
	IAA Approach \$m	RBA Approach \$m	SFA Approach \$m	Standardised Approach \$m	Total Exposures \$m
=< 25%	-	-	-	79	79
>25%=<35%	-	-	-	-	-
>35%=<50%	-	-	-	-	-
>50%=<75%	-	-	-	-	-
>75%=<100%	-	-	-	-	-
>100%=<650%	-	-	-	-	-
1250%	-	-	-	-	-
<b>Total</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>79</b>	<b>79</b>

### 9.3.3 RWA by Risk Weight band

APS 330 Table 12(u) – Trading Book

Risk Weight Assets As at 30 September 2015				
Risk weight band	IAA Approach		RBA Approach	
	Securitisation \$m	Resecuritisation \$m	Securitisation \$m	Resecuritisation \$m
=< 25%	-	-	-	-
>25%=<35%	-	-	-	-
>35%=<50%	-	-	-	-
>50%=<75%	-	-	-	-
>75%=<100%	-	-	-	-
>100%=<650%	-	-	-	-
1250%	-	-	-	-
<b>Total</b>	-	-	-	-

Risk Weight Assets As at 30 September 2015				
Risk weight band	SFA Approach		Standardised Approach	
	Securitisation \$m	Resecuritisation \$m	Securitisation \$m	Resecuritisation \$m
=< 25%	-	-	23	-
>25%=<35%	-	-	-	-
>35%=<50%	-	-	-	-
>50%=<75%	-	-	-	-
>75%=<100%	-	-	-	-
>100%=<650%	-	-	-	-
1250%	-	-	-	-
<b>Total</b>	-	-	23	-

## 9.0 Securitisation

### continued

APS 330 Table 12(u) – Trading Book continued

Risk weight band	Risk Weight Assets As at 31 March 2015			
	IAA Approach		RBA Approach	
	Securitisation \$m	Resecuritisation \$m	Securitisation \$m	Resecuritisation \$m
=< 25%	-	-	-	-
>25%=<35%	-	-	-	-
>35%=<50%	-	-	-	-
>50%=<75%	-	-	-	-
>75%=<100%	-	-	-	-
>100%=<650%	-	-	-	-
1250% (Deduction)	-	-	-	-
<b>Total</b>	-	-	-	-

Risk weight band	Risk Weight Assets As at 31 March 2015			
	SFA Approach		Standardised Approach	
	Securitisation \$m	Resecuritisation \$m	Securitisation \$m	Resecuritisation \$m
=< 25%	-	-	9	-
>25%=<35%	-	-	-	-
>35%=<50%	-	-	-	-
>50%=<75%	-	-	-	-
>75%=<100%	-	-	-	-
>100%=<650%	-	-	-	-
1250% (Deduction)	-	-	-	-
<b>Total</b>	-	-	9	-

### 9.3.4 Resecuritisation Exposure

APS 330 Table 12(n) and (w)

Resecuritisation type	As at 30 September 2015 Gross Credit Exposure \$m	As at 31 March 2015 Gross Credit Exposure \$m
<b>Banking book</b>		
Exposures with Credit Risk Mitigation	-	-
Exposures without Credit Risk Mitigation	209	227
<i>Exposure to Guarantors by ratings:</i>	-	-
<b>Total banking book</b>	<b>209</b>	<b>227</b>
<b>Trading book</b>		
Exposures with Credit Risk Mitigation	-	-
Exposures without Credit Risk Mitigation	-	-
<i>Exposures to Guarantors by ratings:</i>	-	-
<b>Total trading book</b>	<b>-</b>	<b>-</b>

## 10.0 Credit Valuation Adjustment

### 10.1 Credit Valuation Adjustment

Under Basel III, and in accordance with APS 112 Capital Adequacy: Standardised Approach to Credit Risk banks are subject to a capital charge for potential mark-to-market losses on OTC derivatives (i.e. credit valuation adjustments – CVA – risk) associated with a deterioration in the credit worthiness of a counterparty.

The Credit Valuation Adjustment RWA as at 30 September 2015 is \$3,153 million. The CVA capital requirement is shown in the table below.

	As at 30 September 2015 \$m	As at 31 March 2015 \$m
<b>CVA capital treatment</b>		
Total CVA capital charge (standardised formula)	252.2	221.5
Total CVA RWA	3,153	2,769.0

## 11.0 Exposure to Central Counterparties

### 11.1 Exposures to Central Counterparties

Under Basel III, and in accordance with APS 112 Capital Adequacy: Standardised Approach to Credit Risk banks are required to hold capital against exposures arising from trades undertaken through central counterparties. This includes outstanding trade exposures, collateral placed with the clearing house, and default fund contributions.

The RWA on Exposures to Central Counterparties as at 30 September 2015 is \$1,490 million. Details of the components of the exposures to central counterparties capital requirement is shown in the tables below.

	As at 30 September 2015		
	Trade Exposure \$m	Risk Weight	RWA \$m
<b>Central counterparty trade exposure</b>			
Exposures eligible for a 0% risk weight	-	-	-
Exposures eligible for a 2% risk weight	5,795	0.02	116
Exposures eligible for a 4% risk weight	2,524	0.04	101
Exposures eligible for a bilateral risk weight	743	-	416
Total central counterparty exposures	9,062	-	633

	Prefunded Default fund Contribution \$m	Unfunded Default fund Contribution \$m	RWA \$m
<b>Qualifying central counterparty default fund guarantees</b>			
Qualifying central counterparty 1	65	2,070	373
Qualifying central counterparty 2	71	1,198	216
Qualifying central counterparty 3	43	1,175	212
Qualifying central counterparty 4	12	233	42
Qualifying central counterparty 5	20	80	14
Other qualifying central counterparties	22	74	-
Total	233	4,830	857

	Prefunded Default fund Contribution \$m	Unfunded Default fund Contribution \$m	RWA \$m
<b>Non-qualifying central counterparty default fund guarantees</b>			
Qualifying central counterparty 1	-	-	-
Qualifying central counterparty 2	-	-	-
Qualifying central counterparty 3	-	-	-
Qualifying central counterparty 4	-	-	-
Qualifying central counterparty 5	-	-	-
Other qualifying central counterparties	-	-	-
Total	-	-	-

# 11.0 Exposure to Central Counterparties

## Continued

	As at 31 March 2015		
	Trade Exposure \$m	Risk Weight	RWA \$m
<b>Central counterparty trade exposure</b>			
Exposures eligible for a 0% risk weight	-	-	-
Exposures eligible for a 2% risk weight	8,769	0.02	175
Exposures eligible for a 4% risk weight	2,349	0.04	94
Exposures eligible for a bilateral risk weight	464	-	277
<b>Total central counterparty exposures</b>	<b>11,582</b>	<b>-</b>	<b>546</b>

	Prefunded Default fund Contribution \$m	Unfunded Default fund Contribution \$m	RWA \$m
<b>Qualifying central counterparty default fund guarantees</b>			
Qualifying central counterparty 1	57	2,691	484
Qualifying central counterparty 2	53	2,381	429
Qualifying central counterparty 3	24	900	162
Qualifying central counterparty 4	12	818	147
Qualifying central counterparty 5	12	45	8
Other qualifying central counterparties	23	787	-
<b>Total</b>	<b>181</b>	<b>7,622</b>	<b>1,230</b>

	Prefunded Default fund Contribution \$m	Unfunded Default fund Contribution \$m	RWA \$m
<b>Non-qualifying central counterparty default fund guarantees</b>			
Qualifying central counterparty 1	-	-	-
Qualifying central counterparty 2	-	-	-
Qualifying central counterparty 3	-	-	-
Qualifying central counterparty 4	-	-	-
Qualifying central counterparty 5	-	-	-
Other qualifying central counterparties	-	-	-
<b>Total</b>	<b>-</b>	<b>-</b>	<b>-</b>



# 12.0 Market Risk

## 12.1 Market Risk

Market risk is the exposure to adverse changes in the value of Macquarie's trading portfolios as a result of changes in market prices or volatility. Macquarie is exposed to the following risks in each of the major markets in which it trades:

- foreign exchange: changes in spot and forward exchange rates and the volatility of exchange rates;
- interest rates and debt securities: changes in the level, shape and volatility of yield curves, the basis between different interest rate securities and derivatives and credit spreads;
- equities: changes in the price and volatility of individual equities, equity baskets and equity indices;
- commodities: changes in the price and volatility of precious and base metals, agricultural commodities and energy products; and
- the correlation of market prices and rates within and across markets.

It is recognised that all trading activities contain calculated elements of risk taking. Macquarie is prepared to accept such risks provided they are within agreed limits, independently and correctly identified, calculated and monitored by RMG, and reported to senior management on a regular basis.

### 12.1.1 Traded Market Risk

RMG monitors positions within Macquarie according to a limit structure which sets limits for all exposures in all markets. Limits are for both individual trading desks and divisions as well as in aggregate. Trigger limits for the consolidated entity as a whole ensure that if several trading book limits are being used simultaneously, the aggregate level of risk is in line with the global risk appetite articulated in the economic capital model.

RMG sets three complementary limit structures:

- Contingent Loss Limits: a wide range of price and volatility scenarios, including comprehensive worst case, or stress scenarios. Worst case scenarios include market movements larger than have occurred historically. Multiple scenarios are set for each market to capture the non-linearity and complexity of exposures arising from derivatives. A wide range of assumptions about the correlations between markets is applied;
- Position Limits: volume, maturity and open position limits are set on a large number of market instruments and positions in order to constrain concentration risk and to avoid the accumulation of risky, illiquid positions; and
- Value at Risk (VaR) Limits: statistical measure that determines the potential loss in trading value at both a business and aggregate level.

The risk of loss from incorrect or inappropriate pricing and hedging models is mitigated by the requirement for all new pricing models to be independently tested by the specialist Quantitative Applications Division within RMG.

### 12.1.2 Aggregate Measures of Market Risk

Aggregate market risk is constrained by two risk measures, Value at Risk (VaR) and the Macro-Economic Linkages (MEL) scenario. The VaR model predicts the maximum likely loss in Macquarie's trading portfolio due to adverse movements in global markets over holding periods of one and ten days. The MEL scenario utilises the contingent loss approach to capture simultaneous, worst case contingent loss movements across all major markets. Whereas MEL focuses on extreme price movements, VaR focuses on unexceptional changes in price so that it does not account for losses that could occur beyond the 99 per cent level of confidence. For this reason, stress testing remains the predominant focus of RMG as it is viewed to be the most effective mechanism to reduce Macquarie's exposure to unexpected market events.

## 12.0 Market Risk

### continued

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#### 12.1.3 Value at Risk Model

VaR provides a statistically based summary of overall market risk in the Group. The VaR model uses a Monte Carlo simulation to generate normally distributed price and volatility paths for approximately 3,300 benchmarks, using volatilities and correlations based on three years of historical data. Emphasis is placed on more recent market movements to more accurately reflect current conditions. Each benchmark represents an asset at a specific maturity, for example one year crude oil futures or spot gold. The benchmarks provide a high level of granularity in assessing risk, covering a range of points on yield curves and forward price curves, and distinguishing between similar but distinct assets; for example crude oil as opposed to heating oil, or gas traded at different locations. Exposures to individual equities within a national market are captured by equity specific risk modelling incorporated into the VaR model.

The integrity of the VaR model is tested against daily hypothetical and actual trading outcomes (profit and loss) and reported to APRA quarterly.

#### 12.1.4 Macro Economic Linkage Model

MEL scenarios are large, simultaneous, 'worst case' movements in global markets. The MEL scenarios consider very large movements in a number of markets at once, based on Macquarie's understanding of the economic linkages between markets. The MEL scenarios reflect a market 'shock' or 'gap' as opposed to a sustained deterioration.

## 12.2 Market Risk Capital Requirement

The regulatory capital requirement is based upon:

- Value at Risk using a 10 day time horizon at a 99% confidence level.
- Stressed Value at Risk using a 10 day time horizon at a 99% confidence level.

Regulatory capital for debt security specific risk is calculated using the APRA standardised method (see section 12.2.3).

The sum of the VaR and debt security specific risk amounts is scaled by 12.5 in accordance with APRA policy to arrive at the traded market risk RWA, which was \$5,487 million as at 30 September 2015 (31 March 2015: \$6,650 million).

There was one hypothetical trading loss that exceeded the 1-day 99% VaR calculated for the six months ended 30 September 2015. There were no actual trading losses that exceeded the 1-day 99% VaR during this period. The observed number of back-testing exceptions indicates continued acceptable operation of the VaR model.

### 12.2.1 Value at Risk figures (10-day 99%)

APS 330 Table 14(d)

	For the 6 months to 30 September 2015				For the 6 months to 31 March 2015			
	VaR over the current reporting period				VaR over the previous reporting period			
	Mean value \$m	Max value \$m	Min value \$m	VaR (30-Sep) \$m	Mean value \$m	Max value \$m	Min value \$m	VaR (31-Mar) \$m
Commodities	36	54	22	49	31	43	21	26
Equities <sup>1</sup>	23	31	10	11	13	33	6	22
Foreign Exchange	6	19	2	7	7	15	2	13
Interest Rates	15	18	13	18	27	35	22	34
Aggregate	44	57	34	51	42	63	29	47

<sup>1</sup> Equities figures incorporate the Equity specific risk amount.

### 12.2.2 Stressed Value at Risk figures (10-day 99%)

APS 330 Table 14(d)

	For the 6 months to 30 September 2015				For the 6 months to 31 March 2015			
	VaR over the current reporting period				VaR over the previous reporting period			
	Mean value \$m	Max value \$m	Min value \$m	VaR (30-Sep) \$m	Mean value \$m	Max value \$m	Min value \$m	VaR (31-Mar) \$m
Commodities	58	96	35	96	63	90	45	55
Equities <sup>1</sup>	49	75	23	25	37	80	13	64
Foreign Exchange	13	44	3	10	17	39	3	33
Interest Rates	69	75	61	73	96	116	75	77
Aggregate	87	126	65	103	102	128	83	123

<sup>1</sup> Equities figures incorporate the Equity specific risk amount.

## 12.0 Market Risk

### continued

#### 12.2.3 Debt Security Specific Risk figures

Regulatory capital for Macquarie's debt security specific risk (including securitisations held in the trading book) is calculated using the APRA standardised method.

##### APS 330 Table 13(b)

	As at 30 September 2015 \$m	As at 31 March 2015 \$m
Debt specific risk	55	54

The specific risks referred to above arise from movements in credit curves in the Macquarie trading book.

#### 12.2.4 Interest Rate Risk in the Banking Book

Interest rate exposures, where possible, are transferred into the trading books of the Commodities and Financial Markets and Group Treasury, and managed under market risk limits. The residual risks in the banking book are monitored and controlled by RMG and reported to senior management monthly. Macquarie measures interest rate risk on a monthly basis using an APRA approved repricing gap model with monthly bucketing of exposures.

The total IRRBB capital is calculated by adding the change in economic value derived from the worst-case of extreme parallel and non-parallel moves in the yield curves of each currency to the embedded gains and losses as defined in APS 117 Capital Adequacy: Interest Rate Risk in the Banking Book (Advanced ADIs) for each currency.

The IRRBB RWA as at 30 September 2015 is \$812 million (31 March 2015: \$0 million)<sup>1</sup>.

<sup>1</sup> Interest rate risk in the banking book RWA is now non zero due to a methodology change that transfers exposures previously captured in Market Risk.

APS 330 Table 17(b)

	As at 30 September 2015 Change in economic value \$m	As at 31 March 2015 Change in economic value \$m
Stress testing: interest rate shock applied		
<b>AUD</b>		
200 basis point parallel increase	(17.2)	(11.6)
200 basis point parallel decrease	17.3	11.3
<b>CAD</b>		
200 basis point parallel increase	4.2	2.6
200 basis point parallel decrease	(5.7)	(3.9)
<b>EUR</b>		
200 basis point parallel increase	1.6	1.7
200 basis point parallel decrease	3.8	1.2
<b>GBP</b>		
200 basis point parallel increase	(2.2)	(5.0)
200 basis point parallel decrease	3.3	3.6
<b>USD</b>		
200 basis point parallel increase	(7.0)	(17.5)
200 basis point parallel decrease	(1.0)	10.8

Note that the brackets in the above table indicate a loss in economic value due to movements in interest rates.

	As at 30 September 2015 \$m	As at 31 March 2015 \$m
IRRBB regulatory capital requirement – AUD	65.0	0.0

## 13.0 Equity Risk

Equity risk is the exposure to loss arising from banking book equity-type positions. These exposures include:

- holdings in Macquarie – managed funds;
- principal exposures, including direct investments in entities external to Macquarie and assets held for sale;
- property equity, including property trusts and direct property equity investments; and
- other equity, including lease residuals and investment in resource companies.

Macquarie's equity risk positions are managed within the constraints of the Board imposed Equity Risk Limit (ERL). In setting the limit, the Board gives consideration to the level of earnings, capital and market conditions. The ERL is reviewed semi-annually by RMG and the review results are reported to the Risk and Compliance Committee and the Board.

Concentrations within the equity portfolio are managed by a number of additional limits approved by the Risk and Compliance Committee and / or Board. These include limits on:

- property equity investments;
- investments in the resource sector;
- lease residuals (by type of leased asset); and
- acquisition of seed assets.

### 13.1 Accounting for Equity Holdings in the Banking Book

Equity investment positions have varying accounting treatments depending on the nature of the exposure. These include:

- equity accounting for investments in associates;
- available for sale (AVS) equity investments; and
- investments in subsidiaries and held for sale (HFS) associates held at lower of cost or net realisable value.

In addition to equity investment positions in the Banking Book, Macquarie has equity investments held at Fair Value through Profit and Loss, which are included in the Market Risk calculation.

#### 13.1.1 Investments in Associates

Equity accounting is applied to investments in which Macquarie has significant influence or joint control. These equity investments are described as Investments in Associates. Equity accounting is applied such that Macquarie's share of its investee's post acquisition profit or losses are recorded in Macquarie's Income Statement. Investments accounted for using equity accounting are subject to recurring review and assessment for possible impairment. At each balance date, if there is an indication that an investment in an associate may be impaired, then the entire carrying amount of the investment in associate is tested for impairment by comparing the recoverable amount (higher of value in use and fair value less costs to sell) with its carrying amount. Any impairment losses are recognised in the Income Statement.

#### 13.1.2 AVS equity investments

Where an equity investment is not subject to the significant influence or joint control of Macquarie, it is held as a direct equity investment. These direct investments are classified as AVS. AVS securities are initially carried at fair value plus transaction costs. Gains and losses arising from subsequent changes in fair value are recognised directly in the AVS reserve in equity, until the asset is derecognised or impaired, at which time the cumulative gain or loss is recognised in the Income Statement.

At each balance sheet date, an assessment is performed to determine whether there is any objective evidence that available for sale financial assets have been impaired. Impairment exists if there is objective evidence of impairment as a result of one or more events (loss event) which have an impact on the estimated future cash flows of the financial asset that can be reliably estimated. For equity securities, classified as AVS, the main indicators of impairment are: significant changes in the market, economic or legal environment; and a significant or prolonged decline in fair value below cost.

Fair values of quoted investments in active markets are based on current bid prices. If the relevant market is not considered active (or the securities are unlisted), fair value is established by using valuation techniques, including recent arm's length transactions, discounted cash flow analysis, option pricing models and other valuation techniques commonly used by market participants.

#### 13.1.3 Held for sale (HFS) investments

HFS assets include subsidiaries and interests in associates or joint ventures whose carrying amount will be recovered principally through a sale transaction rather than continuing use. The policy of management is to classify these assets as held for sale when it is highly probable that the asset will be sold within the twelve months subsequent to being classified as such. Assets classified as HFS investments are carried at the lower of carrying amount and fair value less costs to sell.

### 13.2 Equity Investments

The table below details the carrying value of equity investments held by Macquarie, in comparison to the applicable fair value of these equities. The carrying value is stated net of any charge for impairment. The categorisation of listed and unlisted investments is required for APRA regulatory reporting purposes – these include the equity investments under each of the accounting classifications outlined above. Valuations have been based on the requirements of accounting standards.

APS 330 Table 16(b) and (c)

	As at 30 September 2015		As at 31 March 2015	
	Carrying value <sup>1</sup> \$m	Fair value <sup>2</sup> \$m	Carrying value <sup>1</sup> \$m	Fair value <sup>2</sup> \$m
<b>Equity investments</b>				
Value of listed (publicly traded) equities	109	139	110	130
Value of unlisted (privately held) equities	1,060	1,060	872	872
<b>Total</b>	<b>1,169</b>	<b>1,199</b>	<b>982</b>	<b>1,002</b>

<sup>1</sup> Net of any impairment charges recognised

<sup>2</sup> Fair value is:

- listed market value for all listed equity investments;
- carrying value (after any impairment charges) for all unlisted equity investments.

### 13.3 Capital requirements arising from equity risks

Equity investments are deducted from Common Equity Tier 1 capital under APRA's version of the Basel III rules.

APS 330 Table 16(f)

	As at 30 September 2015 \$m	As at 31 March 2015 \$m
<b>Deduction amount</b>		
Equity investments	1,000	765

## 13.0 Equity Risk

### continued

#### 13.4 Gains and losses on equity investments

APS 330 Table 16(d) and (e)

	For the 6 months to 30 September 2015 \$m	For the 6 months to 31 March 2015 \$m
<b>Gains / (losses) on equity investments</b>		
Cumulative realised gains in 6 months to the period end <sup>1</sup>	14	13
Total unrealised gains <sup>2</sup>	109	60
Total unrealised gains / (losses) included in Tier 1	109	60

<sup>1</sup> Gains are defined as proceeds on sale less costs net of provisions.

<sup>2</sup> Includes gains that have not gone through the Income Statement. These are primarily the amounts recognised in the Available for Sale Reserve.



# 14.0 Operational Risk

Operational risk is inherent in Macquarie's business. It is the risk of loss from inadequate or failed internal processes, people, systems or from external events.

It also includes the failure or inadequate management of other risk types.

## 14.1 Macquarie's Operational Risk Capital Framework

### Operational Risk Objectives

Macquarie has developed an Operational Risk Management Framework (Framework) to identify, assess and manage operational risks and controls. The Framework is also designed to escalate information about changes in operational risk exposures to relevant stakeholders.

### Operational Risk Management Process

The Framework includes:

- regular self-assessments of risks and controls;
- the recording and analysis of internal incidents;
- the use of indicators to detect changes in risk exposures; and
- a robust change management process ensuring that risks arising from new activities are identified, addressed and managed.

The Framework also includes a variety of Macquarie wide risk policies which require businesses to approach risk matters in a consistent way and conform to minimum standards. External operational risk events are also monitored to learn lessons from other organisations.

### Structure and Organisation of the Operational Risk Function

Most Macquarie operational risk staff operate at the business level. These Business Operational Risk Managers (BORMs) are responsible for embedding operational risk management within their business. They report directly to the relevant business and have a dotted reporting line to the Head of RMG Operational Risk.

RMG Operational Risk is a division of RMG and is managed separately from other risk disciplines within RMG. RMG Operational Risk is responsible for ensuring the Framework remains appropriate and that skilled resources are available to support it. It is also responsible for Macquarie's operational risk capital measurement methodology.

RMG regularly reports on the operational risk profile and the effectiveness of the Framework to the BRIC, the BAC and to senior management. The BRIC is responsible for establishing an appropriate operational risk management framework and reviewing Macquarie's operational risk profile. The BAC is responsible for assessing the effectiveness of the group's internal controls.

## 14.2 Operational Risk Capital Calculation

APRA approved Macquarie's use of the AMA for assessing operational risk capital in December 2007.

Macquarie's operational risk capital is calculated using a scenario-based approach combined with statistical modelling of potential losses. Operational risk scenarios quantify very low probability, potentially high impact losses. When identifying and quantifying such events, Macquarie gives consideration to:

- individual statistical distributions for each scenario,
- external loss data;
- internal loss data;
- risk and control factors determined by the operational risk self assessments; and
- expert opinion from businesses.

Scenarios are updated as business or market factors require.

Scenario estimates are modelled on a semi-annual basis to determine the operational risk regulatory capital required to be held by Macquarie at the 99.9th percentile confidence level. Monte Carlo techniques are used to aggregate individual scenario distributions to determine a group-wide operational risk loss distribution. The model also reflects recent changes in operational risk capital regulatory requirements.

Over time changes in operational risk capital reflect:

- new or significantly changed business activity or businesses growth;
- reduced risk arising from business stability and control environment maturity; and
- changes in the external environment such as new regulations or movements in the economic cycle.

Macquarie allocates capital to individual businesses through quarterly scorecards. The scorecards measure changes in key business factors including:

- size and complexity of the business;
- risk and control assessment outcomes; and
- incident and exception management and governance.

Scorecards help each business to understand their operational risk profile and the impact of changes in their businesses on that profile. Capital allocation rewards positive risk behaviour and penalises increased risk.

Quarterly change in divisional capital is also used to estimate changes to the bank level capital requirement between scenario assessments.

### Mitigation of Operational Risk through Insurance

Macquarie does not currently use insurance in its AMA model for the purpose of operational risk capital reduction.

### Operational Risk - RWA

The operational risk RWA as at 30 September 2015 is \$10,389 million (31 March 2015: \$9,399 million).

## 15.0 Leverage ratio disclosures

In July 2015, the Australian Prudential Regulation Authority released the final version of Prudential Standard APS 110 Capital Adequacy (APS 110) and Prudential Standard APS 330 Public Disclosure (APS 330), which include new disclosure requirements relating to Leverage ratio for authorised deposit-taking institutions (ADIs). The leverage ratio is a non-risk based ratio that is intended to restrict the build-up of excessive leverage in the banking system and act as a supplementary measure to create a back-stop for the risk-based capital requirements. As of September 2015, APRA has not proposed a minimum leverage ratio requirement and confirmed that Basel III leverage ratio is a disclosure requirement for September 2015.

### 15.1 Leverage ratio disclosure template

#### APS 330 Table 18

Item		As at 30 September 2015
<b>On-balance sheet exposures</b>		<b>\$m</b>
1	On-balance sheet items (excluding derivatives and securities financing transactions (SFTs), but including collateral)	140,281
2	(Asset amounts deducted in determining Tier 1 capital)	(2,446)
3	<b>Total on-balance sheet exposures (excluding derivatives and SFTs) (sum of rows 1 and 2)</b>	<b>137,835</b>
<b>Derivative exposures</b>		
4	Replacement cost associated with all derivatives transactions (i.e. net of eligible cash variation margin)	15,584
5	Add-on amounts for potential future credit exposure (PFCE) associated with all derivatives transactions	13,142
6	Gross-up for derivatives collateral provided where deducted from the balance sheet assets pursuant to the Australian Accounting Standards	-
7	(Deductions of receivables assets for cash variation margin provided in derivatives transactions)	(471)
8	(Exempted central counterparty (CCP) leg of client-cleared trade exposures)	(5,220)
9	Adjusted effective notional amount of written credit derivatives	4,650
10	(Adjusted effective notional offsets and add-on deductions for written credit derivatives)	(2,626)
11	<b>Total derivative exposures (sum of rows 4 to 10)</b>	<b>25,059</b>
<b>SFT exposures</b>		
12	Gross SFT assets (with no recognition of netting), after adjusting for sales accounting transactions	27,764
13	(Netted amounts of cash payables and cash receivables of gross SFT assets)	(145)
14	CCR exposure for SFT assets	1,964
15	Agent transaction exposures	-
16	<b>Total SFT exposures (sum of rows 12 to 15)</b>	<b>29,583</b>
<b>Other off-balance sheet exposures</b>		
17	Off-balance sheet exposure at gross notional amount	13,446
18	(Adjustments for conversion to credit equivalent amounts)	(4,389)
19	<b>Other off-balance sheet exposures (sum of rows 17 and 18)</b>	<b>9,057</b>
<b>Capital and total exposures</b>		
20	<b>Tier 1 Capital</b>	<b>10,180</b>
21	<b>Total exposures (sum of rows 3, 11, 16 and 19)</b>	<b>201,534</b>
<b>Leverage ratio</b>		
22	<b>Leverage ratio</b>	<b>5.1%</b>

## 15.2 Summary comparison of accounting assets versus leverage ratio exposure measure

APS 330 Table 19

		As at 30 September 2015 \$m
Item		
1	Total consolidated assets as per published financial statements	192,115
2	Adjustment for investments in banking, financial, insurance or commercial entities that are consolidated for accounting purposes but outside the scope of regulatory consolidation	(2,109)
3	Adjustment for assets held on the balance sheet in a fiduciary capacity pursuant to the Australian Accounting Standards but excluded from the leverage ratio exposure measure	-
4	Adjustments for derivative financial instruments	3,098
5	Adjustment for SFTs (i.e. repos and similar secured lending)	1,819
6	Adjustment for off-balance sheet exposures (i.e. Conversion to credit equivalent amounts of off-balance sheet exposures)	9,057
7	Other adjustments	(2,446)
8	<b>Leverage ratio exposure</b>	<b>201,534</b>

## 16.0 Liquidity coverage ratio disclosures

### Liquidity Coverage Ratio disclosure template

#### APS 330 Table 20

Liquidity Coverage Ratio disclosure template		Total unweighted value (average) (\$m)	Total weighted value (average) (\$m)
Liquid assets, of which:			
1	High-quality liquid assets (HQLA)	*	15,176
2	Alternative liquid assets (ALA)	*	4,593
3	Reserve Bank of New Zealand (RBNZ) securities	*	-
<b>Cash outflows</b>			
4	Retail deposits and deposits from small business customers, of which:	28,123	2,497
5	Stable deposits	11,076	554
6	Less stable deposits	17,047	1,943
7	Unsecured wholesale funding, of which:	14,212	10,314
8	Operational deposits (all counterparties) and deposits in networks for cooperative banks	3,568	876
9	Non-operational deposits (all counterparties)	6,907	5,700
10	Unsecured debt	3,738	3,738
11	Secured wholesale funding	*	3,591
12	Additional requirements, of which	10,273	7,501
13	Outflows related to derivatives exposures and other collateral requirements	6,604	6,604
14	Outflows related to loss of funding on debt products	8	8
15	Credit and liquidity facilities	3,661	889
16	Other contractual funding obligations	13,386	13,386
17	Other contingent funding obligations	6,628	352
18	<b>Total cash outflows</b>	*	37,641
<b>Cash Inflows</b>			
19	Secured lending (e.g. reverse repos)	17,885	4,214
20	Inflows from fully performing exposures	2,305	2,033
21	Other cash inflows	19,759	19,759
22	<b>Total cash inflows</b>	39,949	26,006
23	<b>Total liquid assets</b>	*	19,769
24	<b>Total net cash outflows</b>	*	11,635
25	<b>Liquidity Coverage Ratio (%)</b>	*	170%

\* Not disclosed per LCR disclosure standards

Simple average based on monthly observations for July, August and September 2015 month ends.

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### **The Liquidity Coverage Ratio (LCR)**

The LCR requires sufficient levels of unencumbered, high-quality liquid assets (HQLA) to be held to meet expected net cash outflows (NCOs) under a regulatory-defined stress scenario lasting 30 calendar day. Macquarie has been compliant with the LCR at all times since the ratio was introduced as a minimum requirement in January 2015. Macquarie's 3-month average LCR to 30 September 2015 was 170% (average based on month-end observations).

Macquarie sets internal management- and Board-approved minimum limits for the LCR above the regulatory minimum level and estimates its aggregate LCR position against these limits on a daily basis. Macquarie also monitors the LCR position on a standalone basis for all major currencies in which it operates, with the HQLA portfolio being denominated and held in both Australian Dollars and a range of other currencies to ensure Macquarie's liquidity requirements are broadly matched by currency.

Whilst the LCR is a regulatory minimum, Macquarie also models a number of additional internal liquidity scenarios covering both market-wide and firm-specific crises. The most binding of all scenarios (LCR and internal) determines Macquarie's absolute minimum required level of cash and liquid assets.

Macquarie actively considers the impact of business decisions on the LCR, as well as other internal liquidity metrics that form part of the broader liquidity risk management framework. Macquarie's LCR fluctuates on a daily basis as a result of normal business activities and, accordingly, ongoing fluctuations in the reported LCR are expected and are not necessarily indicative of a changing risk appetite. Some examples of factors that can influence the LCR include wholesale funding activities (such as upcoming maturities and pre-funding expected future asset growth), the degree of activity in Macquarie's capital markets facing businesses, the composition and nature of liquid asset holdings, and a variety of other external market considerations that could impact day-to-day collateral requirements.

### **High-Quality Liquid Assets (HQLA) and the Committed Liquidity Facility (CLF)**

For the quarter ended 30 September 2015, Macquarie's HQLA portfolio was comprised only of Level 1 qualifying AUD and non-AUD HQLA, as well as AUD CLF eligible collateral.

Macquarie's CLF allocation for calendar year 2015 is A\$5bn, which is reflected in the disclosure template under 'Alternative Liquid Assets (ALA)'. Note the disclosed balance of A\$4.6bn reflects the required 'open-repo' of internal self-securitised RMBS with the RBA (which increases cash balances in the Exchange Settlement Account (ESA) with the RBA but is considered an ongoing 'utilisation' of the CLF).

### **Net Cash Outflows (NCOs)**

Net Cash Outflows (NCOs) in the LCR includes contractual and assumed cash outflows, offset by certain allowable

contractual cash inflows. Some of the key drivers of Macquarie's NCOs include:

*Retail and SME deposits:* assumed regulatory outflow relating to deposits from retail and SME customers that are at-call or potentially callable within 30 days. Note that any superannuation deposits received through a self-managed trust are required by APRA to be classified as 'less stable', even though the majority of these deposits are covered by the FCS.

*Unsecured wholesale funding:* includes remaining deposits which are not received from retail or SME customers along with unsecured debt balances contractually maturing within 30 days.

*Secured wholesale funding and lending:* represent inflows and outflows from secured lending and borrowing activities contractually maturing within 30 days, such as repurchase and reverse repurchase agreements.

*Outflows relating to derivative exposures and other collateral requirements:* includes gross contractual cash outflows relating to contractually maturing derivative contracts (with gross inflows on maturing derivative contracts profiled in 'other cash inflows'). Further, contingent liquidity outflows such as potential collateral requirements from market movements, a 3-notch credit ratings downgrade and withdrawal of excess collateral placed with Macquarie are also included in this category.

*Inflows from fully performing exposures:* In Macquarie's LCR, a large component of this balance relates to excess liquidity placed on an overnight or very short-term basis with third parties (internally considered part of the cash and liquid asset portfolio).

*Other contractual funding obligations and other cash inflows:* includes other gross flows not profiled elsewhere in the LCR. The volumes in these categories are large relative to Macquarie's total cash outflows and inflows, however are comprised of two balances in particular:

*Segregated client funds placed with Macquarie:* Macquarie acts as a clearing agent for clients on various futures exchanges. Clients place margin with Macquarie and Macquarie places this margin either directly with the exchange, holds it in other segregated external asset accounts or retains a small portion on deposit with Macquarie. Although these funds are segregated from Macquarie, the balances are recorded on a gross basis on Macquarie's balance sheet and APRA require them to be profiled as offsetting gross inflows and outflows in the LCR.

*Security and broker settlement balances:* these represent securities that have been purchased or sold by Macquarie that have not yet settled and broker balances where stock has been bought or sold on behalf of clients but payment has not been made to / received from the client. APRA require these balances to be reflected on a gross basis in the LCR as 100% weighted inflows and outflows.

It is important to note that in both of the cases above, the profiled outflow must be viewed in conjunction with the profiled inflow and the net effect of these balances on Macquarie's LCR is negligible.

# Disclaimer

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**General areas of disclaimer:**

- The material in this document has been prepared by Macquarie Bank Limited ABN 46 008 583 542 (Macquarie) purely for the purpose of explaining the basis on which Macquarie has prepared and disclosed certain capital requirements and information about the management of risks relating to those requirements and for no other purpose. Information in this document, including any forward looking statements, should not be considered as advice or a recommendation or opinion on any of the Businesses. This document may contain forward looking statements including statements regarding our intent, belief or current expectations with respect to Macquarie's businesses and operations, market conditions, results of operation and financial conditions, capital adequacy, individually assessed provisions and risk management practices. Readers are cautioned not to place undue reliance on these forward looking statements.
- Although Pillar 3 disclosures are intended to provide transparent capital disclosures on a common basis the information contained in this document may not be directly comparable with other banks. This may be due to a number of factors such as:
  - The mix of business exposures between banks
  - Pillar 2 capital requirements are excluded from this disclosure but play a major role in determining both the total capital requirements of the bank and any surplus capital available.

# Appendix 1 Regulatory Capital Reconciliation

## 1.1 Common Disclosures Template

The capital disclosures detailed in the template below represents the post 1 January 2018 Basel III common disclosure requirements. Macquarie Bank Group is applying the Basel III regulatory adjustments in full as implemented by APRA. These tables should be read in conjunction with section 1.2 Regulatory Balance sheet and section 1.3 Reconciliation between common disclosures template and the Regulatory Balance Sheet.

		As at 30 Sep 2015 \$m	Table Reference
	<b>Common Equity Tier 1 capital: instruments and reserves \$m</b>		
1	Directly issued qualifying ordinary shares (and equivalent for mutually-owned entities) capital	8,692	Table f
2	Retained earnings	1,751	
3	Accumulated other comprehensive income (and other reserves)	1,113	
4	Directly issued capital subject to phase out from CET1 (only applicable to mutually-owned companies)	-	
5	Ordinary share capital issued by subsidiaries and held by third parties (amount allowed in group CET1)	-	
6	<b>Common Equity Tier 1 capital before regulatory adjustments</b>	<b>11,556</b>	
	<b>Common Equity Tier 1 capital : regulatory adjustments</b>		
7	Prudential valuation adjustments	-	
8	Goodwill (net of related tax liability)	51	Table b
9	Other intangibles other than mortgage servicing rights (net of related tax liability)	134	Table b
10	Deferred tax assets that rely on future profitability excluding those arising from temporary differences (net of related tax liability)	115	Table a
11	Cash-flow hedge reserve	(58)	
12	Shortfall of provisions to expected losses	221	
13	Securitisation gain on sale (as set out in paragraph 562 of Basel II framework)	-	
14	Gains and losses due to changes in own credit risk on fair valued liabilities	18	
15	Defined benefit superannuation fund net assets	-	
16	Investments in own shares (if not already netted off paid-in capital on reported balance sheet)	-	
17	Reciprocal cross-holdings in common equity	-	
18	Investments in the capital of banking, financial and insurance entities that are outside the scope of regulatory consolidation, net of eligible short positions, where the ADI does not own more than 10% of the issued share capital (amount above 10% threshold)	-	Table c
19	Significant investments in the ordinary shares of banking, financial and insurance entities that are outside the scope of regulatory consolidation, net of eligible short positions (amount above 10% threshold)	-	Table c
20	Mortgage service rights (amount above 10% threshold)	-	
21	Deferred tax assets arising from temporary differences (amount above 10% threshold, net of related tax liability)	-	Table a
22	Amount exceeding the 15% threshold	-	
23	of which: significant investments in the ordinary shares of financial entities	-	Table c
24	of which: mortgage servicing rights	-	
25	of which: deferred tax assets arising from temporary differences	-	Table a
	<b>APRA Specific Regulatory Adjustments</b>		
26	National specific regulatory adjustments (sum of rows 26a, 26b, 26c, 26d, 26e, 26f, 26g, 26h, 26i and 26j)	2,007	
26a	of which: treasury shares	-	
26b	of which: offset to dividends declared under a dividend reinvestment plan (DRP), to the extent that the dividends are used to purchase new ordinary shares issued by the ADI	-	
26c	of which: deferred fee income	-	
26d	of which: equity investments in financial institutions not reported in rows 18, 19 and 23	567	Table c
26e	of which: deferred tax assets not reported in rows 10, 21 and 25	126	Table a
26f	of which: capitalised expenses	357	
26g	of which: investments in commercial (non-financial) entities that are deducted under APRA prudential requirements	907	Table c
26h	of which: covered bonds in excess of asset cover in pools	-	
26i	of which: undercapitalisation of a non-consolidated subsidiary	-	
26j	of which: other national specific regulatory adjustments not reported in rows 26a to 26i	50	

# Appendix 1 Regulatory Capital Reconciliation

## continued

		As at 30 Sep 2015 \$m	Table Reference
	<b>Common Equity Tier 1 capital: instruments and reserves \$m</b>		
27	Regulatory adjustments applied to Common Equity Tier 1 due to insufficient Additional Tier 1 and Tier 2 to cover deductions	-	
28	<b>Total regulatory adjustments to Common Equity Tier 1</b>	<b>2,488</b>	
29	<b>Common Equity Tier 1 Capital (CET1)</b>	<b>9,068</b>	
	<b>Additional Tier 1 Capital: instruments</b>		
30	Directly issued qualifying Additional Tier 1 instruments	429	
31	of which: classified as equity under applicable accounting standards	-	
32	of which: classified as liabilities under applicable accounting standards	429	
33	Directly issued capital instruments subject to phase out from Additional Tier 1	683	
34	Additional Tier 1 instruments (and CET1 instruments not included in row 5) issued by subsidiaries and held by third parties (amount allowed in group AT1)	-	
35	of which: instruments issued by subsidiaries subject to phase out	-	
36	<b>Additional Tier 1 Capital before regulatory adjustments</b>	<b>1,112</b>	<b>Table d</b>
	<b>Additional Tier 1 Capital: Regulatory adjustments</b>		
37	Investments in own Additional Tier 1 instruments	-	
38	Reciprocal cross-holdings in Additional Tier 1 instruments	-	
39	Investments in the capital of banking, financial and insurance entities that are outside the scope of regulatory consolidation, net of eligible short positions, where the ADI does not own more than 10% of the issued share capital (amount above 10% threshold)	-	
40	Significant investments in the capital of banking, financial and insurance entities that are outside the scope of regulatory consolidation (net of eligible short positions)	-	
41	National specific regulatory adjustments (sum of rows 41a, 41b and 41c)	-	
41a	of which: holdings of capital instruments in group members by other group members on behalf of third parties	-	
41b	of which: investments in the capital of financial institutions that are outside the scope of regulatory consolidations not reported in rows 39 and 40	-	
41c	of which: other national specific regulatory adjustments not reported in rows 41a and 41b	-	
42	Regulatory adjustments applied to Additional Tier 1 due to insufficient Tier 2 to cover deductions	-	
43	<b>Total regulatory adjustments to Additional Tier 1 capital</b>	<b>-</b>	
44	<b>Additional Tier 1 capital (AT1)</b>	<b>1,112</b>	
45	<b>Tier 1 Capital (T1=CET1+AT1)</b>	<b>10,180</b>	
	<b>Tier 2 Capital: instruments and provisions</b>		
46	Directly issued qualifying Tier 2 instruments	1,069	Table e
47	Directly issued capital instruments subject to phase out from Tier 2	1,207	Table e
48	Tier 2 instruments (and CET1 and AT1 instruments not included in rows 5 or 34) issued by subsidiaries and held by third parties (amount allowed in group T2)	-	
49	of which: instruments issued by subsidiaries subject to phase out	-	
50	Provisions	40	
51	<b>Tier 2 Capital before regulatory adjustments</b>	<b>2,316</b>	
	<b>Tier 2 Capital: regulatory adjustments</b>		
52	Investments in own Tier 2 instruments	-	
53	Reciprocal cross-holdings in Tier 2 instruments	-	
54	Investments in the Tier 2 capital of banking, financial and insurance entities that are outside the scope of regulatory consolidation, net of eligible short positions, where the ADI does not own more than 10% of the issued share capital (amount above 10% threshold)	-	
55	Significant investments in the Tier 2 capital of banking, financial and insurance entities that are outside the scope of regulatory consolidation, net of eligible short positions	-	
56	National specific regulatory adjustments (sum of rows 56a, 56b and 56c)	-	
56a	of which: holdings of capital instruments in group members by other group members on behalf of third parties	-	
56b	of which: investments in the capital of financial institutions that are outside the scope of regulatory consolidation not reported in rows 54 and 55	-	



		As at 30 Sep 2015 \$m	Table Reference
56c	of which: other national specific regulatory adjustments not reported in rows 56a and 56b	-	
57	<b>Total regulatory adjustments to Tier 2 capital</b>	-	
58	<b>Tier 2 capital (T2)</b>	<b>2,316</b>	
59	<b>Total capital (TC=T1+T2)</b>	<b>12,496</b>	
60	<b>Total risk-weighted assets based on APRA standards</b>	<b>91,912</b>	
<b>Capital ratios and buffers</b>			
61	<b>Common Equity Tier 1 (as a percentage of risk-weighted assets)</b>	9.9%	
62	<b>Tier 1 (as a percentage of risk-weighted assets)</b>	11.1%	
63	<b>Total capital (as a percentage of risk-weighted assets)</b>	13.6%	
64	<b>Buffer requirement (minimum CET1 requirement of 4.5% plus capital conservation buffer of 2.5% plus any countercyclical buffer requirements expressed as a percentage of risk-weighted assets)</b>	N/A	
65	of which: capital conservation buffer requirement	N/A	
66	of which: ADI-specific countercyclical buffer requirements	N/A	
67	of which: G-SIB buffer requirement (not applicable)	N/A	
68	<b>Common Equity Tier 1 available to meet buffers (as a percentage of risk-weighted assets)</b>	N/A	
<b>National minima (if different from Basel III)</b>			
69	National Common Equity Tier 1 minimum ratio (if different from Basel III minimum)	4.5%	
70	National Tier 1 minimum ratio (if different from Basel III minimum)	6.0%	
71	National total capital minimum ratio (if different from Basel III minimum)	8.0%	
<b>Amount below thresholds for deductions (not risk-weighted)</b>			
72	Non-significant investments in the capital of other financial entities	53	Table c
73	Significant investments in the ordinary shares of financial entities	514	Table c
74	Mortgage servicing rights (net of related tax liability)	N/A	
75	Deferred tax assets arising from temporary differences (net of related tax liability)	126	Table a
<b>Applicable caps on the inclusion of provisions in Tier 2</b>			
76	Provisions eligible for inclusion in Tier 2 in respect of exposures subject to standardised approach (prior to application of cap)	40	
77	Cap on inclusion of provisions in Tier 2 under standardised approach	131	
78	Provisions eligible for inclusion in Tier 2 in respect of exposures subject to internal ratings-based approach (prior to application of cap)	-	
79	Cap for inclusion of provisions in Tier 2 under internal ratings-based approach	325	
<b>Capital instruments subject to phase-out arrangements (only applicable between 1 Jan 2018 and 1 Jan 2022)</b>			
80	Current cap on CET1 instruments subject to phase out arrangements	N/A	
81	Amount excluded from CET1 due to cap (excess over cap after redemptions and maturities)	N/A	
82	Current cap on AT1 instruments subject to phase out arrangements	683	
83	Amount excluded from AT1 instruments due to cap (excess over cap after redemptions and maturities)	73	
84	Current cap on T2 instruments subject to phase out arrangements	1,207	
85	Amount excluded from T2 due to cap (excess over cap after redemptions and maturities)	1,157	

# Appendix 1 Regulatory Capital Reconciliation

## continued

### 1.2 Regulatory Balance Sheet as at 30 September 2015

	Macquarie Bank Group Consolidated <sup>1</sup> \$m	Adjustment <sup>2</sup> \$m	Level 2 Regulatory Balance Sheet \$m	Template/ Reconciliation Table Reference
<b>Assets</b>				
Receivables from financial institutions	33,904	(97)	33,807	
Trading portfolio assets	31,224	-	31,224	
Derivative assets	22,200	(239)	21,961	
Investment securities available for sale	8,188	-	8,188	
Other assets	7,472	(1,341)	6,131	
Loan assets held at amortised cost	75,098	(758)	74,340	
Other financial assets at fair value through profit or loss	1,242	-	1,242	
Due from related body corporate entities	1,710	489	2,199	
Property, plant and equipment	10,009	(509)	9,500	
Interests in associates and joint ventures accounted for using the equity method	652	(145)	507	
Intangible assets <sup>3</sup>	185	-	185	Table b
Deferred tax assets	231	10	241	Table a
	-	481	481	Table c
Investments in regulatory non-consolidated subsidiaries				(Footnote 2)
<b>Total Assets</b>	<b>192,115</b>	<b>(2,109)</b>	<b>190,006</b>	
<b>Liabilities</b>				
Trading portfolio liabilities	8,504	-	8,504	
Derivative liabilities	19,906	(18)	19,888	
Deposits	51,899	(1)	51,898	
Other liabilities	9,326	(1,403)	7,923	
Payables to financial institutions	19,112	(195)	18,917	
Other financial liabilities at fair value through profit or loss	1,841	-	1,841	
Due to related body corporate entities	8,298	132	8,430	
Debt issued at amortised cost	56,264	(715)	55,549	
Provisions	82	(1)	81	
Deferred tax liabilities	422	6	428	
<b>Total liabilities excluding loan capital</b>	<b>175,654</b>	<b>(2,195)</b>	<b>173,459</b>	
<b>Loan capital</b>				
Subordinated debt at amortised cost	4,591	-	4,591	Table d
<b>Total loan capital</b>	<b>4,591</b>	<b>-</b>	<b>4,591</b>	
<b>Total liabilities</b>	<b>180,245</b>	<b>(2,195)</b>	<b>178,050</b>	
<b>Net Assets</b>	<b>11,870</b>	<b>86</b>	<b>11,956</b>	
<b>Equity</b>				
Contributed equity	9,083	-	9,083	Table f
Reserves	1,082	31	1,113	Row 3
Retained earnings	1,689	62	1,751	Row 2
Total capital and reserves attributable to equity holders of Macquarie Bank Limited	11,854	93	11,947	
<b>Non-controlling Interests</b>	<b>16</b>	<b>(7)</b>	<b>9</b>	Table g
<b>Total equity</b>	<b>11,870</b>	<b>86</b>	<b>11,956</b>	

1 Macquarie Bank Limited Consolidated Group as per financial statements as at 30 September 2015.

2 Reflects the deconsolidation of certain subsidiaries for APRA reporting purposes. The subsidiaries which are deconsolidated for regulatory purposes include mortgage and leasing special purpose vehicles (SPV) which Macquarie has not made an APS120 Attachment B Para 25 election to be included in the Bank Regulatory Group, and entities conducting insurance, funds management and non-financial operations. Mortgage and leasing special purpose vehicles (SPV) which Macquarie has made an APS 120 Attachment B Para 25 election are included in the Bank Level 2 Regulatory Group.

3 The intangible component of investments in non-consolidated subsidiaries is included in Intangible assets.

### 1.3 Reconciliation between Common Disclosures Template and Regulatory Balance Sheet

Table a	30 September 2015 \$m	Template Reference
<b>Deferred Tax Assets</b>		
Total Deferred Tax Assets per level 2 Regulatory Balance Sheet	241	
Less: Deferred tax assets that rely on future profitability excluding those arising from temporary differences (net of related tax liability)	(115)	Row 10
Less: Deferred tax assets (temporary differences) - Amounts below prescribed threshold	(126)	Row 26e, 75
<b>Total per Common Disclosure Template – Deferred Tax Asset – amount exceed 10%/15% threshold</b>	-	Row 21 / 25

Table b	30 September 2015 \$m	Template Reference
<b>Intangible Assets</b>		
Total Intangible Assets as per level 2 Regulatory Balance Sheet	185	
Less: capitalised software disclosed under intangibles	(92)	Row 9
Less: intangible component of deconsolidates subsidiaries	(42)	Row 9
<b>Total per Common Disclosure Template – Goodwill</b>	51	Row 8

Table c	30 September 2015 \$m	Template Reference
<b>Equity Investments</b>		
Significant investment in financial entities <sup>1,2</sup>	514	Row 73
Non-significant investment in financial entities <sup>1</sup>	53	Row 72
Total Investments in financial institutions	567	Row 26d
Investment in commercial entities <sup>1,2</sup>	907	Row 26g
Total Equity Investments before applying prescribed threshold	1,474	
Less: amounts risk weighted under Harmonised Basel III guidelines	(1,474)	
<b>Total per Common Disclosure Template – Equity Investments</b>	-	Row 18, 19, 23

Table d	30 September 2015 \$m	Template Reference
<b>Additional Tier 1 Capital</b>		
Total Loan Capital per Level 2 Regulatory Balance Sheet	4,591	
Less: Accrued interest	(11)	
Add: Capitalised expenses deducted in Common Equity Tier 1 Capital <sup>3</sup>	10	Included in Row 26f
Less: Tier 2 capital instruments reported in Table e	(3,805)	Table e
Additional Tier 1 Capital (ECS and BCN)	785	
Add: Other Equity Instruments (MIS) included in contributed equity	400	
Less: Basel III transitional amortisation	(73)	
<b>Total per Common Disclosure Template – Additional Tier 1 Capital</b>	1,112	Row 36

- Equity Investments are classified in the Level 2 Regulatory Balance Sheet across Investments in Associates, Available-for-Sale Securities and Investment in regulatory non-consolidated subsidiaries. In addition, the Group has undrawn commitments (off balance sheet) which are deemed in the nature of equity for Regulatory Capital purposes.
- Included in significant investment in financial entities is \$347m of equity investments in regulatory non-consolidated subsidiaries. Included in investment in commercial entities is \$134m of equity investments in regulatory non-consolidated subsidiaries.
- Unamortised issue cost relating to capital instruments are netted against each instrument on the Level 2 Balance Sheet. For regulatory capital purposes, the unamortised costs are deducted at CET1 as part of capitalised expenses in row 26f of the Common Disclosures Template.

# Appendix 1 Regulatory Capital Reconciliation

## continued

	30 September 2015 \$m	Template Reference
<b>Table d cont</b>		
<b>Additional Tier 1 Capital Instruments</b>		
Macquarie Income Securities	327	
Macquarie Bank Capital Notes	429	
Macquarie Exchangeable Capital Securities	356	
<b>Total per Common Disclosure Template – Additional Tier 1 Capital</b>	<b>1,112</b>	<b>Row 36</b>

	30 September 2015 \$m	Template Reference
<b>Table e</b>		
<b>Total Tier 2 Capital per Balance Sheet</b>		
Total Tier 2 Capital per Balance Sheet	3,805	Table d
Less: Fair value hedge adjustments <sup>1</sup>	(305)	
Less: Accrued Interest	(63)	
Less: Foreign Exchange Gain Included in Balance Sheet <sup>2</sup>	(448)	
Less: Basel III transitional amortisation <sup>2</sup>	(713)	
<b>Total per Common Disclosure Template – Tier 2 Capital</b>	<b>2,276</b>	<b>Row 46+47</b>

<b>Tier 2 Capital Instruments</b>		
Subordinated Debt- EUR600m <sup>2</sup> – eligible for transition	(533)	
Subordinated Debt – USD1.0bn <sup>2</sup> – eligible for transition	(674)	
Subordinated Debt – USD750m <sup>2</sup> – fully qualified Tier 2 instruments	(1,069)	
<b>Total per Common Disclosure Template – Tier 2 Capital</b>	<b>(2,276)</b>	<b>Row 46+47</b>

Details on the main features of Capital instruments included in the Group's Regulatory Capital, (Ordinary Share Capital, Additional Tier 1 Capital and Tier 2 capital) as required by APS 330 Attachment B can be found at:  
<http://www.macquarie.com.au/mgl/au/about-macquarie-group/investor-relations>.

	30 September 2015 \$m	Template Reference
<b>Table f</b>		
<b>Contributed Equity</b>		
Total Contributed Equity as per level 2 Regulatory Balance Sheet	9,083	
Less: Additional tier 1 instruments (MIS) included in share capital	(400)	
Add: Capitalised expenses deducted in Common Equity Tier 1 Capital	9	Included in Row 26f
<b>Total per Common Disclosure Template – Contributed Equity</b>	<b>8,692</b>	<b>Row 1</b>

<sup>1</sup> For regulatory capital purposes, APRA requires these instruments to be included as if they were unhedged.

<sup>2</sup> For Tier 2 instruments eligible for transition under APRA Prudential Standards, the amount eligible for recognition as Tier 2 capital at 30 September 2015 is calculated at 70% of the Subordinated debt at the 1 January 2013 foreign exchange rate.

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	30 September	
Table g	2015	Template
	\$m	Reference
<b>Non Controlling Interests</b>		
Total Non Controlling Interests as per level 2 Regulatory Balance Sheet	9	
Less: other non controlling interests not included in capital	(9)	
<b>Total per Common Disclosure Template – Non Controlling Interests</b>	-	<b>Row 5</b>

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## Appendix 2 List of entities deconsolidated from the Level 1 and Level 2 Regulatory groups for APRA reporting purposes

30 September 2015	Total Assets <sup>1,2,3</sup>	Total Liabilities <sup>1,2,3</sup>
<b>Securitisation</b>		
PUMA Global Trust No.5	367	(366)
PUMA Master Fund H-1	93	(93)
PUMA Master Fund P-13	78	(78)
PUMA Master Fund S-8	266	(266)
<b>Funds Management</b>		
Elise Nominees Pty Limited	0	(0)
Macquarie Alternative Assets Management Limited	42	(18)
Macquarie Asset Management Inc.	4	(0)
Macquarie Australia Securities Pty Limited	1	(0)
Macquarie Financial Products Management Limited	45	(0)
Macquarie Fonds GmbH	1	(0)
Macquarie Fondsmanagement GmbH	1	(0)
Macquarie Forestry Management Pty Limited	0	(0)
Macquarie Global Bond Fund	0	(0)
Macquarie Investment Management (NZ) Limited	4	(0)
Macquarie Investment Management Ltd	125	(5)
Macquarie Investment Management S.à r.l.	1	(0)
Macquarie Investment Services Limited	24	(6)
Macquarie Master Geared Growth Fund	0	(0)
Macquarie Master Small Companies Fund	2	(2)
Macquarie NRAS Trust	8	(8)
Macquarie Prism Pty Limited	2	(0)
Macquarie Private Capital Management Limited	1	(0)
Macquarie Private Portfolio Management Limited	6	(0)
Macquarie Securities Management Pty Limited	4	(0)
Macquarie Treu Vermögen GmbH	0	(0)
Macquarie Vermögenstreuhand GmbH	0	(0)
MIDF UK1 GUERNSEY GP LIMITED	0	(0)
MIDF UK1 LLP	0	(0)
MIDF UK1B GUERNSEY GP LIMITED	0	(0)

30 September 2015	Total Assets <sup>1,2,3</sup>	Total Liabilities <sup>1,2,3</sup>
<b>Insurance</b>		
International Life Solutions (Pty) Limited	0	(0)
Macquarie Life Limited	1,202	(1,011)
<b>Non-Financial Operations</b>		
Avenal Power Center, LLC	25	(9)
Bella Holdings LLC	21	(11)
Bella Property Owner LLC	90	(66)
Capital Meters Limited	160	(148)
Cheeryble Developments Limited	43	(35)
CMC Railroad, Inc.	46	(11)
Corona Energy Limited	47	(14)
Corona Energy Retail 1 Limited	52	(41)
Corona Energy Retail 2 Limited	55	(24)
Corona Energy Retail 3 Limited	7	(1)
Corona Energy Retail 4 Limited	54	(40)
Corona Energy Retail 5 Limited	9	(15)
Corona Gas Management Limited	7	(2)
Energetics Design & Build Limited	33	(37)
Energetics Electricity Limited	34	(23)
Energetics Gas Limited	29	(19)
Energetics Holdco Limited	51	(23)
Energetics Midco Limited	36	(0)
Energetics Topco Limited	40	(5)
Energetics Networked Energy Ltd	3	(4)
Keba Energy LLC	3	(0)
Levantera Developments Limited	60	(45)
Liberty Green Renewables Indiana, LLC	2	(0)
Macquarie Agricultural Services Pty Limited	4	(4)
Macquarie Barnett LLC	9	(0)
Macquarie Business Solutions Pty Limited	1	(0)
Macquarie Commodities (Singapore) Pte. Limited	2	(0)
Macquarie Corona Energy Holdings Limited	30	(0)
Macquarie Farm Assets and Resources Management Pty Limited	54	(16)
Macquarie Rotorcraft Leasing, Inc.	1	(0)
Outplan Pty Limited	0	(0)
PT Macquarie Commodities Indonesia	1	(1)
PT MPM Indonesia	1	(0)
Relational Technology Services, Inc.	1	(0)
Resource Marine Pte. Limited	12	(11)
Shelby Energy Holdings, LLC	4	(0)
Sterling TC Holdings LLC	13	(7)
Sterling TC Property Owner LLC	58	(43)
Summerset Holdings LLC	0	(0)
Summerset Property Owner LLC	0	(0)

## Appendix 2 List of entities deconsolidated from the Level 1 and Level 2 Regulatory groups for APRA reporting purposes

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- 1 These balances, along with any Australian GAAP adjustment where required, are included in Macquarie Bank Group's reviewed Australian GAAP financial statements for the period ended 30 September 2015. Financial statements under local GAAP of certain entities may be subjected to separate review/ audit from the Macquarie Bank Group review and these reviews/ audit may not be complete as at the date of this report.
- 2 The total assets and liabilities should not be aggregated as certain entities are holding companies for other entities in the table shown above.
- 3 Numbers are rounded to the nearest A\$ million. Asset balances are shown as positive and liability balances are shown as negative.



## Appendix 3 List of APRA Quantitative tables

APS 330 Table	Title	Section No
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7 (i)	Credit Risk exposures by measurement approach	5.3 & 6.1
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11 (c)	Notional amount of credit derivatives	8.2
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12 (h)	Performance of assets securitised	9.2.2
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12 (j), (q) & (r)	Securitisation activity	9.2.4
12 (k) & (s)	Exposure by Type of Asset	9.3.1
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12 (t)	Exposure by Risk Weight band – Trading Book	9.3.2
12 (u)	RWA by Risk Weight band – Trading Book	9.3.3
12 (n) & (w)	Resecuritisation exposure	9.3.4
13 (b)	Debt Security Specific Risk figures	12.2.3
14 (d)	Value at Risk figures	12.2.1
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16 (b) & (c)	Equity Investments	13.2
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16 (f)	Capital Requirements arising from equity risks	13.3
17 (b)	Interest Rate Risk in the Banking Book	12.2.4
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18	Leverage ratio disclosure template	15.1
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20	Liquidity Coverage Ratio disclosure template	16.0

## Appendix 4 Glossary of terms

ADI	Authorised Deposit-taking Institution.
ALA	Alternative Liquid Assets
AMA	Advanced Measurement Approach (for determining operational risk).
APRA	Australian Prudential Regulation Authority.
Associates	Associates are entities over which Macquarie has significant influence, but not control. Investments in associates may be further classified as Held For Sale ('HFS') associates. HFS investments are those that have a high probability of being sold within 12 months to external parties. Associates that are not held for sale are carried at cost and equity-accounted. Macquarie's share of the investment's post-acquisition profits or losses is recognised in the income statement and its share of post-acquisition movements in reserves is recognised within equity.
AVC multiplier	Asset Value Correlation multiplier. A loading introduced as part of Basel III which is added to the correlation factor when calculating the RWA on exposures to certain financial institutions.
AVS assets	Available-for-sale assets Available for sale. AVS assets are investments where Macquarie does not have significant influence or control and are intended to be held for an indefinite period. AVS investments are initially recognised at fair value and revalued in subsequent periods to recognise changes in the assets' fair value with these revaluations included in the AVS reserve in equity. If and when the AVS asset is derecognised or impaired, the cumulative gain or loss will be recognised in the income statement.
BAC	Board Audit Committee.
BRIC	Board Risk Committee
Contingent liabilities	Defined in AASB 137 <i>Provisions, Contingent Liabilities and Contingent Assets</i> as a possible obligation that arises from past events and whose existence will be confirmed only by the occurrence or non-occurrence of one or more uncertain future events not wholly within the control of the entity; or a present obligation that arises from past events but is not recognised because it is not probable to occur or the amount cannot be reliably measured.
CCE	Current Credit Exposure. The sum of the positive mark-to-market value (or replacement cost) of market-related contracts entered into by the ADI.
CEA	Credit Equivalent Amount. The on-balance sheet equivalent value of an off balance sheet transaction.
Central counterparty	A clearing house or exchange that interposes itself between counterparties to contracts traded in one or more financial markets, becoming the buyer to every seller and the seller to every buyer, and therefore ensuring the future performance or open contracts.
CLF	Committed Liquidity Facility
Common Equity Tier 1 capital	A capital measure defined by APRA comprising the highest quality components of capital that fully satisfy all the following essential characteristics: <ul style="list-style-type: none"> <li>- provide a permanent and unrestricted commitment of funds,</li> <li>- are freely available to absorb losses,</li> <li>- do not impose any unavoidable servicing charge against earnings; and</li> <li>- rank behind the claims of depositors and other creditors in the event of winding up.</li> </ul> Common equity tier 1 capital comprises Paid Up Capital, Retained Earnings, and certain reserves.
CVA	Credit Valuation Adjustment. The risk of mark-to-market losses on the expected counterparty risk to OTC derivatives.
Deconsolidated entities	Entities involved in conducting insurance, funds management and non financial operations including special purpose vehicles (SPV) that are not consolidated for the APRA regulatory reporting group.
DVP	Delivery versus Payment
EAD	Exposure at Default – the gross exposure under a facility (the amount that is legally owed to the ADI) upon default of an obligor.
ECAI	External Credit Assessment Institution.
ECAM	Economic Capital Adequacy Model.
EL	Expected Loss, which is a function of PD and LGD.
ELE	Extended Licensed Entity is an entity that is treated as part of the ADI ('Level 1') for the purpose of measuring the ADI's capital adequacy and exposures to related entities. The criterion for qualification as an ELE is detailed in the APRA Prudential Standards.
EMEA	Europe, Middle East & Africa.
ERL	Equity Risk Limit – Board imposed limit by which equity risk positions are managed.
FCS	Financial Claims Scheme
FICO	Fair Isaac Corporation

FIRB	Foundation Internal Ratings Based Approach whereby PD and Maturity are internally estimated by the ADI and LGD is set by APRA.
GAAP	Generally Accepted Accounting Principles
Gross credit risk exposure	The potential loss that Macquarie would incur as a result of a default by an obligor excluding the impact of netting and credit risk mitigation.
HQLA	High Quality Liquid Assets
ICAAP	Internal Capital Adequacy Assessment Process.
IRRBB	Interest Rate Risk in the Banking Book.
Impaired assets	An asset for which the ultimate collectability of principal and interest is compromised.
ISDA	International Swaps and Derivatives Association.
LCR	Liquidity Coverage Ratio
Level 2 MBL Regulatory Group	MBL, its parent Macquarie B.H. Pty Ltd and MBL's subsidiaries but excluding deconsolidated entities for APRA reporting purposes.
Level 3 Regulatory Group	MGL and its subsidiaries.
LGD	Loss given default is defined as the economic loss which arises upon default of the obligor.
Macquarie Income Preferred Securities (MIPS)	MIPS were issued when the London branch of the Bank issued 7,000 reset subordinated convertible debentures, each with a face value of £50,000, to Macquarie Capital Funding LP, a controlled entity of the Bank. The convertible debentures currently pay a fixed return of 6.177% until April 2020. As at 31 March 2014, Macquarie Bank had £42.5 million of MIPS on issue which are held by parties not associated with Macquarie. MIPS were fully redeemed by Macquarie Bank Group on 22 June 2015.
Macquarie Income Securities (MIS)	The Macquarie Income Securities (MIS) are perpetual and carry no conversion rights. Distributions are paid quarterly, based on a floating rate of BBSW plus 1.7%. Subject to limitations on the amount of hybrids eligible for inclusion as Tier 1 Capital, they qualify as Tier 1 Capital and are treated as equity on the balance sheet. There are four million \$A100 face value MIS on issue.
MBL	Macquarie Bank Limited.
MGL	Macquarie Group Limited.
NCO	Net Cash Outflows
PCE, PFCE	Potential Credit Exposure (PCE) / Potential Future Credit Exposure (PFCE). The potential exposures arising on a transaction calculated as the notional principal amount multiplied by a credit conversion factor specified by APRA.
PD	Probability of Default. The likelihood of an obligor not satisfying its financial obligations.
Reserve Bank of Australia (RBA)	Central bank of Australia with responsibility over monetary policy.
Risk-weighted assets (RWA)	A risk-based measure of an entity's exposures, which is used in assessing its overall capital adequacy.
RMBS	Residential Mortgage Backed Securities
SFT	Securities Financing Transactions (SFT). SFTs are transactions such as repurchase agreements, reverse repurchase agreements and security lending and borrowing, where the value of the transactions depends on market valuations and the transactions are often subject to margin agreements.
SME	Small – Medium Enterprises
SPV's	Special purpose vehicles or securitisation vehicles.
Subordinated debt	Debt issued by Macquarie for which agreements between Macquarie and the lenders provide, in the event of liquidation, that the entitlement of such lenders to repayment of the principal sum and interest thereon is and shall at all times be and remain subordinated to the rights of all other present and future creditors of Macquarie. Subordinated debt is classified as liabilities in the Macquarie financial statements and may be included in Tier 2 Capital.
Tier 1 Capital	A capital measure defined by APRA, comprising common equity tier 1 capital plus eligible hybrid securities.
Tier 1 Capital Deductions	An amount deducted in determining Tier 1 Capital, as defined in Prudential Standard APS 111 Capital Adequacy: Measurement of Capital.
Tier 1 Capital Ratio	Tier 1 Capital expressed as a percentage of RWA.

## Appendix 4 Glossary of terms

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Tier 2 Capital	A capital measure defined by APRA, comprising other components of capital which contribute to the strength of the entity.
Tier 2 Capital Deductions	An amount deducted in Tier 2 Capital, as defined in Prudential Standard APS 111 Capital Adequacy: Measurement of Capital.
Total Capital	Tier 1 Capital plus Tier 2 Capital less Total Capital Deductions.
Total Capital Ratio	Total Capital expressed as a percentage of RWA.