



McDOWELL RACKNER GIBSON PC
419 SW 11th Ave, Suite 400 | Portland, OR 97205

ALISHA TILL
Direct (503) 290-3628
alisha@mrg-law.com

May 14, 2018

VIA ELECTRONIC FILING

Attention: Filing Center
Public Utility Commission of Oregon
201 High Street SE, Suite 100
P.O. Box 1088
Salem, Oregon 97308-1088

Re: Docket UM 1909 – In the Matter of PUBLIC UTILITY COMMISSION OF OREGON, Investigation of the Scope of the Commission’s Authority to Defer Capital Costs.

Attention Filing Center:

Attached for filing in the above-captioned docket is an electronic copy of Idaho Power Company’s Supplemental Closing Brief.

Please contact this office with any questions.

Sincerely,

A handwritten signature in blue ink that reads "Alisha Till".

Alisha Till
Legal Assistant

Attachments

**BEFORE THE PUBLIC UTILITY COMMISSION
OF OREGON**

UM 1909

In the Matter of

PUBLIC UTILITY COMMISSION OF
OREGON

Investigation of the Scope of the Commission's
Authority to Defer Capital Costs

IDAHO POWER COMPANY'S
SUPPLEMENTAL CLOSING BRIEF

I. INTRODUCTION AND SUMMARY

This Supplemental Closing Brief is submitted on behalf of Idaho Power Company ("Idaho Power" or "Company"). While the Joint Utilities' Closing Brief¹ incorporates Idaho Power's legal analysis and explains why ORS 757.259 clearly authorizes the Public Utility Commission of Oregon ("Commission") to approve full revenue requirement deferrals, this Supplemental Closing Brief provides a practical illustration of how such capital investment deferrals can support administrative efficiency and minimize the number of general rate cases, consistent with the language and intent of ORS 757.259.

II. BACKGROUND

Idaho Power's sole capital investment revenue requirement deferral was approved in 2012, in connection with the Langley Gulch Power Plant ("Langley"), which came into service on June 29, 2012.² At the time it filed for deferral, the Company had recently completed a general rate case, with new rates effective on March 1, 2012.³ However, because the suspension period in the

¹ The Joint Utilities' Closing Brief provides the consolidated legal analysis of Idaho Power, Portland General Electric Company ("PGE"), PacifiCorp d/b/a Pacific Power ("PacifiCorp"), Northwest Natural Gas Company ("NW Natural") Avista Corporation ("Avista"), and Cascade Natural Gas Corporation ("Cascade") (collectively, "Joint Utilities").

² *In the Matter of Idaho Power Company's General Rate Revision Application for Authority to Include the Langley Power Plant Investment in Rate Base*, Docket No. UE 248, Stipulation at 3 (Sept. 5, 2012).

³ Docket No. UE 248, Testimony, IPC's Executive Summary at 4 (Mar. 9, 2012).

general rate case ended before Langley’s planned in-service date of July 1, 2012, the Company did not include the project in its general rate filing, and instead filed a revised tariff on March 9, 2012, solely to reflect Langley in rates.⁴ The Company’s proposed revised tariff was effective July 1, 2012, to coincide with the project’s in-service date.⁵

Given that the new filing concerned only a single issue, the Company had anticipated that Langley could be evaluated and included in rates by the plant’s in-service date.⁶ However, Staff’s workload was unable to accommodate the expedited filing timeline, and on March 26, 2012, the Commission imposed the 9-month schedule applicable for general rate cases, with a new tariff effective date planned for March 31, 2013.⁷ Thus, under the adopted schedule, the Company would be unable to include the investment in Langley in rates, until after the plant had been operating for nearly a year. However, to address the Company’s concerns, Staff agreed that it would be appropriate for the Company to defer the revenue requirement impact of Langley, from the date of its operations until the effective date of the new rates, so that the Company would be allowed to recover its investment at a later date.

The Company therefore filed a deferral request on May 4, 2012 to “address[] the mismatch of revenues and costs associated with the suspension of Idaho Power’s tariff sheets.”⁸ Idaho Power explained that the deferral would minimize the frequency of rate changes and appropriately match customers’ costs and benefits.⁹ Staff agreed, finding that the deferral was consistent with

⁴ Docket No. UE 248, Stipulation at 1-2.

⁵ Docket No. UE 248, Stipulation at 1-2.

⁶ Docket No. UE 248, Testimony, IPC’s Executive Summary at 4.

⁷ Docket No. UE 248, Order No. 12-101 at 1 (Mar. 26, 2012). While “the statute contemplates that the maximum suspension would occur in two steps—an initial six-month suspension followed by a second three-month suspension if necessary,” the Commission concluded “that a full nine-month suspension [was] necessary to conduct [its] investigation.” *Id.*

⁸ *In the Matter of Idaho Power Company’s Application for Deferred Accounting of Revenue Requirement Variances Associated with the Langley Gulch Power Plant*, Docket No. UM 1597, Application at 2 (May 2, 2012).

⁹ Docket No. UM 1597, Application at 4.

ORS 757.259(2)(e) and that it would “allow the utility to better match the costs and benefits of Langley.”¹⁰ The Commission approved the request for deferral on May 31, 2012.¹¹ The deferral included the revenue requirement associated with capital investments.¹²

A settlement was subsequently reached in Idaho Power’s Langley rate case, and the Commission included the project in rates beginning on October 1, 2012.¹³ As a result, the Company’s ongoing Langley deferral account includes the incremental revenue requirement effect of Langley for the period between July 1, 2012, and September 30, 2012—that is, after the date when the Company’s tariff would have taken effect, and up to the date when the approved tariff actually took effect.¹⁴

Since the deferral was approved, Idaho Power has been unable to seek amortization of the deferred amount because the Company has been amortizing the effects of the 2008 Power Cost Adjustment Mechanism (“PCAM”), which was authorized for deferral in Order No. 10-016.¹⁵ Due to the Company’s relatively low revenues in Oregon, coupled with the amortization cap in ORS 757.259, only the PCAM deferral could be amortized—thus delaying the recovery of costs already delayed from the Company’s initial 2012 revised tariff filing.

On February 28, 2017, Idaho Power asked the Commission to amortize the Langley deferral balance beginning “immediately following the completion of amortization of the

¹⁰ Docket No. UM 1597, Order No. 12-226, Appendix A at 2-3 (June 19, 2012).

¹¹ Order No. 12-226.

¹² *In the Matter of Idaho Power Company Request for Amortization of Certain Expenses Relating to the Revenue Requirement Variances with the Langley Gulch Power Plant*, Docket No. UE 321, Idaho Power/105, Waites/1 (Feb. 28, 2017).

¹³ Docket No. UE 248, Order No. 12-358 at 4 (Sept. 20, 2012).

¹⁴ Docket No. UE 321, Application for Amortization at 1 (Feb. 28, 2017).

¹⁵ Docket No. UE 321, Application for Amortization at 3; *see also In re Idaho Power Co.’s Application for Authority to Implement a Power Cost Adjustment Mechanism for Elec. Service to Customers in the State of Or.*, Docket No. UE 195, Order No. 10-016 (Jan. 15, 2010).

Company's 2008 PCAM" in April 2017.¹⁶ At this point, and for the first time, Staff suggested that the Langley deferral of the investment's full revenue requirement effect for the delay period might be outside the Commission's "legal authority."¹⁷

III. DISCUSSION

Staff fully supported Idaho Power's deferral of the revenue requirement effect associated with Langley, which covered the period of delay when the Company's tariff sheet was suspended.¹⁸ Now, years later, Staff claims that the Commission *cannot* defer the full revenue requirement effect of a capital investment and *should not* defer the return of the utility's capital investment itself.¹⁹ Staff's sudden change of position (1) fails to address the implications such a wholesale change would have for existing deferrals, (2) indicates the reversal of prior Commission and Staff support for Idaho Power's deferral that evokes significant risks that could result in financial harm to the Company and its customers, and (3) ignores the Commission's (and Staff's own) past findings, of the public benefits of deferrals.

First, to be clear, the Commission has already authorized Idaho Power's Langley deferral, and has already concluded that the Commission has authority to defer the comprehensive revenue requirement effect of the project.²⁰ Staff now takes the position that the Commission's previous decision to defer the return on the Company's capital investment was beyond the Commission's legal authority,²¹ and that the Commission's previous decision to defer the return *of* the Company's

¹⁶ Docket No. UE 321, Application for Amortization at 3.

¹⁷ Docket No. UE 321, Staff Report at 2 (Mar. 15, 2017).

¹⁸ See Order No. 12-226, Appendix A at 2.

¹⁹ Staff's Closing Brief at 1.

²⁰ Order No. 12-226.

²¹ Docket No. UM 1909, Staff's Opening Brief at 1 ("Legally the Commission has the authority to defer the return *of* capital investment (depreciation expense), but not the legal authority to defer the return *on* capital investment.")

capital investment—which Staff originally supported as consistent with the public interest—should be overturned.²² Yet Staff refuses to address this inconsistency with other dockets, stating instead that “currently approved and pending deferral applications . . . will need to be addressed outside of this proceeding.”²³ Given that Staff proposes a broadly-applicable new policy in this docket, it would seem eminently reasonable to consider the practical implications of such a policy for readily-available examples—such as the Langley deferral. Ignoring these clear implications merely emphasizes that Staff’s new policy has no basis in the practical realities and benefits of deferrals.

Second, Staff’s inconsistency has the potential for negative financial impacts to Idaho Power and its customers stemming from both the financial investment community and credit rating agency concerns. Regulatory consistency is a critical component of Idaho Power’s credit stability and ability to raise the capital needed to fund its investments in utility infrastructure necessary to serve customers—as evidenced in the attached Moody’s Investors Service press release dated February 5, 2018, affirming the Company’s credit rating.²⁴ In fact, with respect to Idaho Power’s stable outlook, Moody’s states that “[Idaho Power’s] financial and regulatory consistency support the A3 rating.”²⁵ The reversal of the Langley deferral would reflect both the Commission and Staff overturning a decision previously supported by both entities, indicating an inconsistent and unpredictable regulatory environment. This adverse outcome could potentially lead to further uncertainty in regulatory proceedings and may cause a negative impact on Idaho Power’s credit

²² Docket No. UM 1909, Staff’s Opening Brief at 11 (“The Commission should decline to exercise its discretion to allow the deferral of return of utility investment”).

²³ Docket No. UM 1909, Staff’s Opening Brief at 11.

²⁴ See Attachment A (Moody’s Investors Service, *Rating Action: Moody’s affirms Idaho Power at A3 and IDACORP at Baal* (Feb. 5, 2018)).

²⁵ *Id.* at 1.

rating, thereby making it more difficult for Idaho Power to raise capital and increasing the Company's financing costs and ultimately costs to customers.

Third, Staff ignores both the Commission's and its own past findings that deferrals for projects such as Langley provide clear and genuine public benefits.²⁶ Such public interest is inherent in the very language of ORS 757.259, which allows for deferrals to minimize the frequency of rate changes or to better match the benefits received and costs borne by customers.²⁷ Staff acknowledged these benefits in the Langley deferral, noting that it will allow the Company to better match the costs and benefits of Langley for customers, effectively support administrative efficiency, and properly minimize the number of general rate cases.²⁸

In light of this clear precedent, there is simply no basis for adopting the uniform assumption that *all* capital investment revenue requirement deferrals are contrary to the public interest. By examining the specific examples of past Commission decisions and Staff's own support, it is plain that capital investment revenue requirement deferrals can—and do—effectively serve the public interests codified by the legislature in ORS 757.259.

IV. CONCLUSION

The public benefits served by the Langley deferral are the same benefits described by the legislature in ORS 757.259. Staff's position would foreclose the Commission's ability to exercise its discretion to effectuate such benefits, contrary to the plain language of the statute and the manifest will of the legislature. Idaho Power therefore respectfully requests that the Commission continue to approve capital investment revenue requirement deferrals on a case-by-case basis, consistent with the public interest characterized by ORS 757.259. Deferrals that minimize the

²⁶ See Order No. 12-226, Appendix A at 2.

²⁷ ORS 757.259(2)(e).

²⁸ See pOrder No. 12-226, Appendix A at 2.

number of rate cases and better match the costs borne and benefits received by customers are properly approved and amortized into rates.

Respectfully submitted this 14th of May 2018, on behalf of Idaho Power.

McDOWELL RACKNER GIBSON PC



Lisa F. Rackner
Shoshana J. Baird
McDowell Rackner Gibson PC
419 SW 11th Ave., Suite 400
Portland, OR 97205
Telephone: (503) 595-3924
Email: lisa@mrg-law.com
shoshana@mrg-law.com

Attorneys for Idaho Power Company

IDAHO POWER COMPANY

Lisa Nordstrom
P.O. Box 70
Boise, Idaho 83707

BEFORE THE PUBLIC UTILITY COMMISSION
OF OREGON

UM 1909

IDAHO POWER COMPANY

Attachment A
Moody's Investors Service

May 14, 2018

MOODY'S

INVESTORS SERVICE

Rating Action: Moody's affirms Idaho Power at A3 and IDACORP at Baa1; outlooks stable

Global Credit Research - 05 Feb 2018

New York, February 05, 2018 -- Moody's Investors Service, ("Moody's") today affirmed the ratings of Idaho Power Company (IPC), including its A3 Issuer rating, A1 senior secured rating, its P-2 short term rating for commercial paper and its VMIG 2 industrial revenue bond rating. Moody's affirmed the ratings of its parent company, IDACORP's (IDA) Baa1 Issuer rating and its P-2 short term rating for commercial paper. The outlooks of IPC and IDA are stable. IDA's credit profile is based primarily on its principal subsidiary, IPC, with one notch of structural subordination applied. IDA has no standalone long-term debt, but is an occasional issuer of commercial paper.

RATINGS RATIONALE

"Nearly 100% of IDACORP's revenue, assets and cash flow are derived from utility operations at Idaho Power. The low business risk profile, financial performance and credit profile of IDACORP's primary subsidiary are the most important factors supporting IDACORP's rating" said Robert Petrosino, Vice President/Senior Analyst. IDA's other operating subsidiaries are relatively small and include: IDACORP Financial Services, an investor in affordable housing projects and other real estate investments; and Ida-West Energy, an operator of nine small hydro-electric generation projects that satisfy the requirements of the Public Utility Regulatory Policies Act of 1978.

IPC enjoys a constructive regulatory environment and a unique asset base that largely mitigate the utility's weaker relative cash flow metrics, including CFO pre-WC to debt consistently in the mid-to-high teens. This compares poorly to A3-rated vertically integrated peers, which typically produce between 20% and 25% CFO pre-WC to debt. IPC does not fully benefit from tax deferrals as they are flowed back to customers in rates, and has a longer depreciable asset life given its hydro generation centric asset base, both of which contribute to the relative weakness in CFO metrics.

Nevertheless, given the predictability of IPC's financial profile and the above average regulatory support in Idaho, we see a high degree of credit stability. IPC's financial and regulatory consistency support the A3 rating, compared to peers that have a higher degree of risk in regulatory decisions or increased financial volatility. The cooperative regulatory environment that the IPUC maintains helps to lower IPC's business risk, as the suite of cost recovery provisions allowed is above average compared to the other states across the US. These mechanisms provide certainty to cash flow generation in any given year, with variances typically due to hydro or weather conditions that average out over time.

In addition to the commodity and conservation trackers, and decoupling, IPC is currently operating under a settlement stipulation through 2019. The settlement is a significant credit positive, since it allows IPC to amortize additional accumulated deferred investment tax credits (ADITC) in an aggregate amount up to \$45 million should its return on equity (ROE) fall below 9.5% in its Idaho jurisdiction. This essentially provides an earnings floor level for IPC. Assuming the \$45 million availability is not exhausted, this enhances the predictability of IPC's earnings and cash flow for the three year term of the settlement. However, IPC has not needed to use ADITC amortization to meet its 9.5% ROE since the settlement was enacted.

In May 2017, IPC received approval to accelerate rate base recovery related to its ownership interests in the North Valmy coal plant. IPC expects to end participation in the North Valmy plant by 2025.

In December 2017, IPC filed with its Idaho regulators for approval of a stipulation of settlement related to the expenses incurred in the re-licensing process of its Hells Canyon Hydro-electric Complex (HCC). The company is seeking a prudence determination on \$216.5 million to be included in customer rates in the future. HCC has 1,167 MWs of generation capacity, representing 34% of IPC's total capacity. The company has been collecting \$6.5 million annually in AFUDC related to HCC's relicensing. When a relicensed HCC is moved into rate base, IPC's hydro generation will represent a value of approximately \$600/kw. IPC expects a new 40 to 50 year license no earlier than 2021.

IPC is experiencing good growth across customer classes driven by its nation leading population growth in

Idaho as well as by attracting new business and existing business expansion. The state and its cities are experiencing population growth as existing companies expand operations and new companies open their doors in IPC's service territory.

IPC's generation resources are sufficient to meet the company growing load profile. IPC's 2017 Integrated Resource Plan does not call for any additional generation resources over the near to intermediate term with no resource needs prior to 2026. Longer term planning needs are largely expected to be met by the mid-2020s expected in-service date of its Boardman to Hemingway (B2H) transmission line, currently in development with minor permitting approvals remaining.

We expect a gradual absolute and relative improvement in IPC's financial profile. A consistent capital plan which averages \$300 million annually over the next few years has largely been funded with cash flow. IDA has achieved steady dividend growth and its payout is commensurate with the industry and peers.

Rating Outlook

IDA's stable outlook is substantially driven by the outlook of IPC. IPC's stable rating outlook reflects a very supportive regulatory environment that offers timely cost recovery and constructive rate making policies, providing very consistent and predictable cash flow.

Factors that Could Lead to an Upgrade

IDA's rating would likely be upgraded with the upgrade of IPC. The rating of IPC could be upgraded if key credit metrics improve such that cash flow from operations pre-working capital (CFO pre-WC) to debt approaches mid 20% percent on a sustained basis.

Factors that Could Lead to a Downgrade

IDA's rating would likely be downgraded with the downgrade of IPC. IPC could be downgraded if financial metrics were to weaken, such that CFO pre-WC to debt persists below the high teens. Additionally, IPC's rating could be downgraded if the company were to experience a decline in the level of regulatory support for its operating or capital expenditures.

Outlook Actions:

..Issuer: IDACORP, Inc.

....Outlook, Remains Stable

..Issuer: Idaho Power Company

....Outlook, Remains Stable

Affirmations:

..Issuer: American Falls Reservoir District, ID

....Senior Unsecured Revenue Bonds, Affirmed A3

....Senior Unsecured Revenue Bonds, Affirmed VMIG 2

..Issuer: Humboldt (County of) NV

....Senior Secured Revenue Bonds, Affirmed A1

..Issuer: IDACORP, Inc.

.... Issuer Rating, Affirmed Baa1

....Senior Unsecured Commercial Paper, Affirmed P-2

..Issuer: Idaho Power Company

.... Commercial Paper, Affirmed P-2

... Issuer Rating, Affirmed A3
...Senior Secured First Mortgage Bonds, Affirmed A1
...Senior Secured Regular Bond/Debenture, Affirmed A1
...Underlying Senior Secured Regular Bond/Debenture, Affirmed A1
..Issuer: Morrow (Port of) OR
...Senior Unsecured Revenue Bonds, Affirmed A3
...Senior Unsecured Revenue Bonds, Affirmed VMIG 2
..Issuer: Sweetwater (County of) WY
...Senior Secured Revenue Bonds, Affirmed A1

The principal methodology used in these ratings was Regulated Electric and Gas Utilities published in June 2017. Please see the Rating Methodologies page on www.moodys.com for a copy of this methodology.

REGULATORY DISCLOSURES

For ratings issued on a program, series or category/class of debt, this announcement provides certain regulatory disclosures in relation to each rating of a subsequently issued bond or note of the same series or category/class of debt or pursuant to a program for which the ratings are derived exclusively from existing ratings in accordance with Moody's rating practices. For ratings issued on a support provider, this announcement provides certain regulatory disclosures in relation to the credit rating action on the support provider and in relation to each particular credit rating action for securities that derive their credit ratings from the support provider's credit rating. For provisional ratings, this announcement provides certain regulatory disclosures in relation to the provisional rating assigned, and in relation to a definitive rating that may be assigned subsequent to the final issuance of the debt, in each case where the transaction structure and terms have not changed prior to the assignment of the definitive rating in a manner that would have affected the rating. For further information please see the ratings tab on the issuer/entity page for the respective issuer on www.moodys.com.

For any affected securities or rated entities receiving direct credit support from the primary entity(ies) of this credit rating action, and whose ratings may change as a result of this credit rating action, the associated regulatory disclosures will be those of the guarantor entity. Exceptions to this approach exist for the following disclosures, if applicable to jurisdiction: Ancillary Services, Disclosure to rated entity, Disclosure from rated entity.

Regulatory disclosures contained in this press release apply to the credit rating and, if applicable, the related rating outlook or rating review.

Please see www.moodys.com for any updates on changes to the lead rating analyst and to the Moody's legal entity that has issued the rating.

Please see the ratings tab on the issuer/entity page on www.moodys.com for additional regulatory disclosures for each credit rating.

Robert Petrosino
Vice President - Senior Analyst
Infrastructure Finance Group
Moody's Investors Service, Inc.
250 Greenwich Street
New York, NY 10007
U.S.A.
JOURNALISTS: 1 212 553 0376
Client Service: 1 212 553 1653

Jim Hempstead
MD - Utilities
Infrastructure Finance Group

JOURNALISTS: 1 212 553 0376
Client Service: 1 212 553 1653

Releasing Office:
Moody's Investors Service, Inc.
250 Greenwich Street
New York, NY 10007
U.S.A.
JOURNALISTS: 1 212 553 0376
Client Service: 1 212 553 1653



© 2018 Moody's Corporation, Moody's Investors Service, Inc., Moody's Analytics, Inc. and/or their licensors and affiliates (collectively, "MOODY'S"). All rights reserved.

CREDIT RATINGS ISSUED BY MOODY'S INVESTORS SERVICE, INC. AND ITS RATINGS AFFILIATES ("MIS") ARE MOODY'S CURRENT OPINIONS OF THE RELATIVE FUTURE CREDIT RISK OF ENTITIES, CREDIT COMMITMENTS, OR DEBT OR DEBT-LIKE SECURITIES, AND MOODY'S PUBLICATIONS MAY INCLUDE MOODY'S CURRENT OPINIONS OF THE RELATIVE FUTURE CREDIT RISK OF ENTITIES, CREDIT COMMITMENTS, OR DEBT OR DEBT-LIKE SECURITIES. MOODY'S DEFINES CREDIT RISK AS THE RISK THAT AN ENTITY MAY NOT MEET ITS CONTRACTUAL, FINANCIAL OBLIGATIONS AS THEY COME DUE AND ANY ESTIMATED FINANCIAL LOSS IN THE EVENT OF DEFAULT. CREDIT RATINGS DO NOT ADDRESS ANY OTHER RISK, INCLUDING BUT NOT LIMITED TO: LIQUIDITY RISK, MARKET VALUE RISK, OR PRICE VOLATILITY. CREDIT RATINGS AND MOODY'S OPINIONS INCLUDED IN MOODY'S PUBLICATIONS ARE NOT STATEMENTS OF CURRENT OR HISTORICAL FACT. MOODY'S PUBLICATIONS MAY ALSO INCLUDE QUANTITATIVE MODEL-BASED ESTIMATES OF CREDIT RISK AND RELATED OPINIONS OR COMMENTARY PUBLISHED BY MOODY'S ANALYTICS, INC. CREDIT RATINGS AND MOODY'S PUBLICATIONS DO NOT CONSTITUTE OR PROVIDE INVESTMENT OR FINANCIAL ADVICE, AND CREDIT RATINGS AND MOODY'S PUBLICATIONS ARE NOT AND DO NOT PROVIDE RECOMMENDATIONS TO PURCHASE, SELL, OR HOLD PARTICULAR SECURITIES. NEITHER CREDIT RATINGS NOR MOODY'S PUBLICATIONS COMMENT ON THE SUITABILITY OF AN INVESTMENT FOR ANY PARTICULAR INVESTOR. MOODY'S ISSUES ITS CREDIT RATINGS AND PUBLISHES MOODY'S PUBLICATIONS WITH THE EXPECTATION AND UNDERSTANDING THAT EACH INVESTOR WILL, WITH DUE CARE, MAKE ITS OWN STUDY AND EVALUATION OF EACH SECURITY THAT IS UNDER CONSIDERATION FOR PURCHASE, HOLDING, OR SALE.

MOODY'S CREDIT RATINGS AND MOODY'S PUBLICATIONS ARE NOT INTENDED FOR USE BY RETAIL INVESTORS AND IT WOULD BE RECKLESS AND INAPPROPRIATE FOR RETAIL INVESTORS TO USE MOODY'S CREDIT RATINGS OR MOODY'S PUBLICATIONS WHEN MAKING AN INVESTMENT DECISION. IF IN DOUBT YOU SHOULD CONTACT YOUR FINANCIAL OR OTHER PROFESSIONAL ADVISER.

ALL INFORMATION CONTAINED HEREIN IS PROTECTED BY LAW, INCLUDING BUT NOT LIMITED TO, COPYRIGHT LAW, AND NONE OF SUCH INFORMATION MAY BE COPIED OR OTHERWISE REPRODUCED, REPACKAGED, FURTHER TRANSMITTED, TRANSFERRED, DISSEMINATED, REDISTRIBUTED OR RESOLD, OR STORED FOR SUBSEQUENT USE FOR ANY SUCH PURPOSE, IN WHOLE OR IN PART, IN ANY FORM OR MANNER OR BY ANY MEANS WHATSOEVER, BY ANY PERSON WITHOUT MOODY'S PRIOR WRITTEN CONSENT.

CREDIT RATINGS AND MOODY'S PUBLICATIONS ARE NOT INTENDED FOR USE BY ANY PERSON AS A BENCHMARK AS THAT TERM IS DEFINED FOR REGULATORY PURPOSES AND MUST NOT BE USED IN ANY WAY THAT COULD RESULT IN THEM BEING CONSIDERED A BENCHMARK.

All information contained herein is obtained by MOODY'S from sources believed by it to be accurate and reliable. Because of the possibility of human or mechanical error as well as other factors, however, all information contained herein is provided "AS IS" without warranty of any kind. MOODY'S adopts all necessary

measures so that the information it uses in assigning a credit rating is of sufficient quality and from sources MOODY'S considers to be reliable including, when appropriate, independent third-party sources. However, MOODY'S is not an auditor and cannot in every instance independently verify or validate information received in the rating process or in preparing the Moody's publications.

To the extent permitted by law, MOODY'S and its directors, officers, employees, agents, representatives, licensors and suppliers disclaim liability to any person or entity for any indirect, special, consequential, or incidental losses or damages whatsoever arising from or in connection with the information contained herein or the use of or inability to use any such information, even if MOODY'S or any of its directors, officers, employees, agents, representatives, licensors or suppliers is advised in advance of the possibility of such losses or damages, including but not limited to: (a) any loss of present or prospective profits or (b) any loss or damage arising where the relevant financial instrument is not the subject of a particular credit rating assigned by MOODY'S.

To the extent permitted by law, MOODY'S and its directors, officers, employees, agents, representatives, licensors and suppliers disclaim liability for any direct or compensatory losses or damages caused to any person or entity, including but not limited to by any negligence (but excluding fraud, willful misconduct or any other type of liability that, for the avoidance of doubt, by law cannot be excluded) on the part of, or any contingency within or beyond the control of, MOODY'S or any of its directors, officers, employees, agents, representatives, licensors or suppliers, arising from or in connection with the information contained herein or the use of or inability to use any such information.

NO WARRANTY, EXPRESS OR IMPLIED, AS TO THE ACCURACY, TIMELINESS, COMPLETENESS, MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE OF ANY SUCH RATING OR OTHER OPINION OR INFORMATION IS GIVEN OR MADE BY MOODY'S IN ANY FORM OR MANNER WHATSOEVER.

Moody's Investors Service, Inc., a wholly-owned credit rating agency subsidiary of Moody's Corporation ("MCO"), hereby discloses that most issuers of debt securities (including corporate and municipal bonds, debentures, notes and commercial paper) and preferred stock rated by Moody's Investors Service, Inc. have, prior to assignment of any rating, agreed to pay to Moody's Investors Service, Inc. for appraisal and rating services rendered by it fees ranging from \$1,500 to approximately \$2,500,000. MCO and MIS also maintain policies and procedures to address the independence of MIS's ratings and rating processes. Information regarding certain affiliations that may exist between directors of MCO and rated entities, and between entities who hold ratings from MIS and have also publicly reported to the SEC an ownership interest in MCO of more than 5%, is posted annually at www.moodys.com under the heading "Investor Relations — Corporate Governance — Director and Shareholder Affiliation Policy."

Additional terms for Australia only: Any publication into Australia of this document is pursuant to the Australian Financial Services License of MOODY'S affiliate, Moody's Investors Service Pty Limited ABN 61 003 399 657AFSL 336969 and/or Moody's Analytics Australia Pty Ltd ABN 94 105 136 972 AFSL 383569 (as applicable). This document is intended to be provided only to "wholesale clients" within the meaning of section 761G of the Corporations Act 2001. By continuing to access this document from within Australia, you represent to MOODY'S that you are, or are accessing the document as a representative of, a "wholesale client" and that neither you nor the entity you represent will directly or indirectly disseminate this document or its contents to "retail clients" within the meaning of section 761G of the Corporations Act 2001. MOODY'S credit rating is an opinion as to the creditworthiness of a debt obligation of the issuer, not on the equity securities of the issuer or any form of security that is available to retail investors. It would be reckless and inappropriate for retail investors to use MOODY'S credit ratings or publications when making an investment decision. If in doubt you should contact your financial or other professional adviser.

Additional terms for Japan only: Moody's Japan K.K. ("MJKK") is a wholly-owned credit rating agency subsidiary of Moody's Group Japan G.K., which is wholly-owned by Moody's Overseas Holdings Inc., a wholly-owned subsidiary of MCO. Moody's SF Japan K.K. ("MSFJ") is a wholly-owned credit rating agency subsidiary of MJKK. MSFJ is not a Nationally Recognized Statistical Rating Organization ("NRSRO"). Therefore, credit ratings assigned by MSFJ are Non-NRSRO Credit Ratings. Non-NRSRO Credit Ratings are assigned by an entity that is not a NRSRO and, consequently, the rated obligation will not qualify for certain types of treatment under U.S. laws. MJKK and MSFJ are credit rating agencies registered with the Japan Financial Services Agency and their registration numbers are FSA Commissioner (Ratings) No. 2 and 3 respectively.

MJKK or MSFJ (as applicable) hereby disclose that most issuers of debt securities (including corporate and

municipal bonds, debentures, notes and commercial paper) and preferred stock rated by MJKK or MSFJ (as applicable) have, prior to assignment of any rating, agreed to pay to MJKK or MSFJ (as applicable) for appraisal and rating services rendered by it fees ranging from JPY200,000 to approximately JPY350,000,000.

MJKK and MSFJ also maintain policies and procedures to address Japanese regulatory requirements.