

Macquarie Global Infrastructure Total Return Fund Inc.  
Form N-Q  
October 19, 2016

UNITED STATES  
SECURITIES AND EXCHANGE COMMISSION  
Washington, D.C. 20549

FORM N-Q

QUARTERLY SCHEDULE OF PORTFOLIO HOLDINGS OF REGISTERED  
MANAGEMENT INVESTMENT COMPANY

Investment Company Act file number: 811-21765

Macquarie Global Infrastructure Total Return Fund Inc.  
(Exact name of registrant as specified in charter)

125 West 55<sup>th</sup> Street, New York, NY 10019  
(Address of principal executive offices) (Zip code)

Sareena Khwaja-Dixon, Esq.  
ALPS Fund Services, Inc.  
1290 Broadway, Suite 1100  
Denver, Colorado 80203  
(Name and address of agent for service)

Registrant's telephone number, including area code: (303) 623-2577

Date of fiscal year end: November 30

Date of reporting period: June 1, 2016 – August 31, 2016

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## Item 1. Schedule of Investments.

Macquarie Global Infrastructure Total Return Fund  
 Schedule of Investments  
 AUGUST 31, 2016 (Unaudited)  
 (Expressed in U.S. Dollars)

Description	Shares	Value \$
COMMON STOCKS - 132.25%		
Australia - 9.00%		
APA Group <sup>(1)</sup>	950,665	\$6,601,726
Sydney Airport <sup>(1)</sup>	826,721	4,523,227
Transurban Group <sup>(1)</sup>	2,052,793	17,680,226
		28,805,179
Brazil - 1.21%		
Prumo Logistica SA <sup>(1)(2)</sup>	1,273,249	2,756,104
Prumo Logistica SA - Receipt <sup>(1)(2)</sup>	507,550	1,128,517
		3,884,621
Canada - 15.33%		
Enbridge, Inc.	624,302	24,621,701
TransCanada Corp.	386,403	17,522,790
Veresen, Inc. <sup>(1)</sup>	701,200	6,908,269
		49,052,760
China - 11.67%		
China Gas Holdings, Ltd.	1,474,000	2,504,311
China Longyuan Power Group Corp., Ltd.	4,264,000	3,583,771
China Merchants Holdings International Co., Ltd.	4,797,886	13,668,398
COSCO SHIPPING Ports, Ltd.	7,117,433	7,706,871
ENN Energy Holdings, Ltd.	372,000	2,083,570
Hopewell Highway Infrastructure, Ltd.	7,145,500	4,163,384
Huadian Fuxin Energy Corp., Ltd.	14,092,000	3,633,106
		37,343,411
France - 8.99%		
Engie SA	140,332	2,236,862
Groupe Eurotunnel SE <sup>(1)</sup>	1,992,166	21,910,517
Vinci SA	60,671	4,601,256
		28,748,635
Germany - 2.29%		
Fraport AG Frankfurt Airport Services Worldwide <sup>(1)</sup>	82,054	4,577,273
Hamburger Hafen und Logistik AG <sup>(1)</sup>	171,166	2,752,215
		7,329,488
Italy - 9.07%		
Atlantia SpA <sup>(1)</sup>	312,224	8,031,114
Enav SpA <sup>(2)(3)(4)</sup>	2,550,000	10,581,161

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Enel SpA	1,865,101	8,234,331
Snam SpA <sup>(1)</sup>	393,382	2,180,826
		29,027,432
Japan - 2.00%		
East Japan Railway Co.	48,800	4,178,881
West Japan Railway Co.	38,500	2,203,615
		6,382,496
Luxembourg - 0.39%		
Intelsat SA <sup>(2)</sup>	460,614	1,243,658
Mexico - 2.94%		
Infraestructura Energetica Nova SAB de CV	1,082,300	4,177,467
OHL Mexico SAB de CV <sup>(1)(2)</sup>	3,696,900	5,221,007
		9,398,474

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Description	Shares	Value \$
Netherlands - 0.99%		
Koninklijke Vopak NV	62,184	\$3,153,249
Singapore - 2.30%		
Hutchison Port Holdings Trust <sup>(1)</sup>	17,127,400	7,364,782
Spain - 13.46%		
Abertis Infraestructuras SA <sup>(1)</sup>	1,237,262	19,162,750
Aena SA <sup>(1)(3)(4)</sup>	41,378	5,850,159
Enagas SA	140,280	4,119,214
Iberdrola SA <sup>(1)</sup>	2,118,851	13,944,489
		43,076,612
Switzerland - 1.07%		
Flughafen Zuerich AG <sup>(1)</sup>	18,415	3,407,585
United Kingdom - 6.95%		
National Grid Plc <sup>(1)</sup>	1,010,778	13,890,239
Pennon Group Plc <sup>(1)</sup>	723,887	8,341,278
		22,231,517
United States - 44.59%		
American Electric Power Co., Inc. <sup>(1)</sup>	66,600	4,300,362
American Tower Corp. <sup>(1)</sup>	59,700	6,768,786
Cheniere Energy, Inc. <sup>(2)</sup>	218,600	9,377,940
Crown Castle International Corp. <sup>(1)</sup>	121,390	11,504,130
Dominion Resources, Inc. <sup>(1)</sup>	93,600	6,941,376
Duke Energy Corp. <sup>(1)</sup>	203,796	16,234,390
Edison International <sup>(1)</sup>	61,300	4,457,736
Kinder Morgan, Inc. <sup>(1)</sup>	714,200	15,605,270
NextEra Energy, Inc.	117,400	14,198,356
PG&E Corp. <sup>(1)</sup>	198,300	12,282,702
Sempra Energy <sup>(1)</sup>	216,900	22,694,247
Southwest Gas Corp.	52,200	3,644,604
Spectra Energy Corp. <sup>(1)</sup>	127,700	4,548,674
The Williams Cos., Inc. <sup>(1)</sup>	361,400	10,097,516
		142,656,089
Total Common Stocks (Cost \$435,446,630)		423,105,988
MASTER LIMITED PARTNERSHIPS - 5.45%		
United States - 5.45%		
Enterprise Products Partners LP <sup>(1)</sup>	380,856	10,054,599
Magellan Midstream Partners LP <sup>(1)</sup>	105,134	7,394,074
		17,448,673

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Total Master Limited Partnerships (Cost \$16,419,579)	17,448,673
Total Investments - 137.70% (Cost \$451,866,209)	440,554,661
Other Assets in Excess of Liabilities - 7.41%	23,705,414
Leverage Facility - (45.11)% <sup>(5)</sup>	(144,323,795)
Total Net Assets - 100.00%	\$319,936,280

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- (1) All or a portion of the security is available to serve as collateral on the outstanding leverage. The aggregate market value of the collateralized securities totals \$288,979,904 as of August 31, 2016.
- (2) Non-Income Producing Security.  
Securities exempt from registration under Rule 144a of the Securities Act of 1933. These securities may be sold in
- (3) the ordinary course of business in transactions exempt from registration, normally to qualified institutional buyers. At period end, the aggregate market value of those securities was \$16,431,320, representing 5.14% of net assets. Security was purchased pursuant to Regulation S under the Securities Act of 1933, which exempts registration securities offered and sold outside of the United States. Such securities cannot be sold by the issuer in the United
- (4) States without either an effective registration statement filed pursuant to the Securities Act of 1933, or pursuant to an exemption from registration. These securities have been deemed liquid under guidelines approved by the Fund's Board of Directors. At period end, the aggregate market value of those securities was \$16,431,320, representing 5.14% of net assets.
- (5) Leverage facility expressed as a percentage of net assets. However, leverage limitations are calculated based on Total Assets as defined in the Fund's Prospectus. (Note 5)

Common Abbreviations:

AG	Aktiengesellschaft is a German term that refers to a corporation that is limited by shares, i.e., owned by shareholders.
Co.	Company.
Cos.	Companies.
Corp.	Corporation.
Inc.	Incorporated.
LP	Limited Partnership.
Ltd.	Limited.
NV	Naamloze Vennootschap is the Dutch term for a public limited liability corporation.
Plc	Public Limited Company.
SA	Generally designates corporations in various countries, mostly those employing the civil law.
SAB de CV	Sociedad Anonima Bursatil de Capital Variable is a Spanish Variable Capital Company.
SE	SE Regulation. A European Company which can operate on a Europe-wide basis and be governed by Community law directly applicable in all Member States.
SpA	Societeta' Per Azioni is an Italian shared company.

See Notes to Quarterly Schedule of Investments.

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NOTES TO QUARTERLY SCHEDULE OF INVESTMENTS

August 31, 2016 (unaudited)

1. Portfolio Valuation: The net asset value (“NAV”) of the shares of common stock of the Macquarie Global Infrastructure Total Return Fund Inc. (the “Fund”) will be computed based upon the value of the securities and other assets and liabilities held by the Fund. The NAV is determined as of the close of regular trading on the NYSE (normally 4:00 p.m. Eastern Time) on each day the NYSE is open for trading. U.S. debt securities and non-U.S. securities will normally be priced using data reflecting the earlier closing of the principal markets for those securities (subject to the fair value policies described below).

Readily marketable portfolio securities listed on any U.S. exchange other than the NASDAQ National Market are valued, except as indicated below, at the last sale price on the business day as of which such value is being determined, or if no sale price, at the mean of the most recent bid and asked prices on such day. Securities admitted to trade on the NASDAQ National Market are valued at the NASDAQ official closing price as determined by NASDAQ. Securities traded on more than one securities exchange are valued at the last sale price on the business day as of which such value is being determined at the close of the exchange representing the principal market for such securities. U.S. equity securities traded in the over-the-counter market, but excluding securities admitted to trading on the NASDAQ National Market, are valued at the closing bid prices.

Non-U.S. exchange-listed securities will generally be valued using information provided by an independent third party pricing service. The official non-U.S. security price is determined using the last sale price at the official close of the security’s respective non-U.S. market, which is usually different from the close of the NYSE. Occasionally, events affecting the value of such securities may occur between such times and the close of the NYSE that will not always be reflected in the computation of the value of such securities. If events materially affecting the value of such securities occur during such period, these securities will be valued at their fair value according to the procedures adopted by the Fund’s Board of Directors. Although there are observable inputs assigned on a security level, prices are derived from factors using Interactive Data Corporation’s (“IDC”) Fair Value Information Service (“FVIS”) model. For this reason, significant events will cause movements between Level 1 and Level 2 (see the description of inputs and levels below). Non-U.S. securities, currencies and other assets denominated in non-U.S. currencies are translated into U.S. Dollars at the exchange rate of such currencies against the U.S. Dollar as provided by a pricing service. When price quotes are not available, fair market value may be based on prices of comparable securities in accordance with the Fund’s valuation policy.

Forward currency exchange contracts are valued by calculating the mean between the last bid and asked quotation supplied to a pricing service by certain independent dealers in such contracts. Non-U.S. traded forward currency contracts are valued using the same method as the U.S. traded contracts. Exchange traded options and futures contracts are valued at the closing price in the market where such contracts are principally traded. These contracts may involve market risk in excess of the unrealized gain or loss. In addition, the Fund could be exposed to risk if the counterparties are unable to meet the terms of the contract or if the value of the currencies changes unfavorably to the U.S. Dollar.

In the event that the pricing service cannot or does not provide a valuation for a particular security, or such valuation is deemed unreliable, especially with unlisted securities or instruments, fair value is determined by the Valuation Committee. Except as otherwise designated by the Board of Directors, the Valuation Committee shall be comprised of at least five members designated by the Fund or Macquarie Capital Investment Management LLC (“MCIM”), each of whom are officers of the Fund, representatives of MCIM and/or representatives of ALPS Fund Services, Inc. A quorum of the Valuation Committee will consist of a minimum of three voting members, provided that the members present include at least one of the following: the Portfolio Manager, the Chief Financial Officer (or appropriate designee) or the Trader. The Chief Compliance Officer (or appropriate designee) must be in attendance, but shall be non-voting. In fair valuing the Fund’s investments, the Valuation Committee will consider the Securities and Exchange

Commission (the "SEC") pronouncements on valuations, including Accounting Series Release No. 118, to the extent relevant.

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A variety of factors may be considered when determining the fair value of such securities, including, but not limited to the following:

- The type of security
- The size of the holding
- The cost of the holding
- The financial statements of the issuer
- The fundamental business data relating to the issuer
- An evaluation of the forces that influence the market in which these securities are purchased or sold
- Transactions in comparable securities
- Price quotes from dealers and/or pricing services
- Information obtained from contacting the issuer, analysts or appropriate stock exchange
- The existence of merger proposals or tender offers that might affect the value of the security

Fair Value Measurements: The Fund discloses the classification of its fair value measurements following a three-tier hierarchy based on the inputs used to measure fair value. Inputs refer broadly to the assumptions that market participants would use in pricing the asset or liability, including assumptions about risk. Inputs may be observable or unobservable. Observable inputs reflect the assumptions market participants would use in pricing the asset or liability that are developed based on market data obtained from sources independent of the reporting entity. Unobservable inputs reflect the reporting entity's own assumptions about the assumptions market participants would use in pricing the asset or liability that are developed based on the best information available.

Various inputs are used in determining the value of the Fund's investments as of the reporting period end. The designated input levels are not necessarily an indication of the risk or liquidity associated with these investments. When inputs used fall into different levels of the fair value hierarchy, the level in the hierarchy within which the fair value measurement falls is determined based on the lowest level input that is significant to the fair value measurement in its entirety. These inputs are categorized in the following hierarchy under applicable financial accounting standards:

Level 1 – Unadjusted quoted prices in active markets for identical assets or liabilities that the Fund has the ability to access.

Level 2 – Observable inputs other than quoted prices included in Level 1 that are observable for the asset or liability, either directly or indirectly. These inputs may include quoted prices for the identical instrument on an inactive market, prices for similar instruments, interest rates, credit risk, yield curves, default rates and similar data.

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Level 3 – Unobservable inputs for the asset or liability, to the extent relevant observable inputs are not available; representing Management’s own assumptions about the assumptions a market participant would use in valuing the asset or liability, and would be based on the best information available.

The availability of observable inputs can vary from security to security and is affected by a wide variety of factors, including, for example, the type of security, whether the security is new and not yet established in the marketplace, the liquidity of markets, and other characteristics particular to the security. To the extent that valuation is based on models or inputs that are less observable or unobservable in the market, the determination of fair value requires more judgment. Accordingly, the degree of judgment exercised in determining fair value is greatest for instruments categorized in Level 3.

The Fund evaluates transfers into or out of Level 1, Level 2 and Level 3 as of the end of the reporting period. During the nine months ended August 31, 2016, there were no transfers between Level 1 and 2 securities.

Changes in valuation techniques may result in transfers between the levels during the reporting period. The Fund recognizes transfers between the levels as of the end of each reporting period. In accordance with procedures established by, and under the general supervision of the Fund's Board of Directors, certain equity securities listed or traded on foreign security exchanges in the Fund's portfolio may include a fair valuation adjustment factor applied to their equity prices as of the end of the period and may be categorized as Level 2. Application of fair valuation adjustment factors was not deemed necessary at the end of the period and as such, equity securities listed or traded on foreign security exchanges were categorized as Level 1.

The following is a summary of the inputs used as of August 31, 2016 in valuing the Fund’s investments carried at value:

	Valuation Inputs			Total
	Level 1	Level 2	Level 3	
Investments in Securities at Value*				
Common Stocks	\$423,105,988	\$ –	\$ –	\$423,105,988
Master Limited Partnerships	17,448,673	–	–	17,448,673
Total	\$440,554,661	\$ –	\$ –	\$440,554,661

The following is a reconciliation of assets in which significant unobservable inputs (Level 3) were used in determining fair value:

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	Balance as of November 30, 2015	Realized Gain/(Loss)	Change in Unrealized Appreciation/ (Depreciation)	Purchases	Transfer into Level 3	Transfer out of Level 3 <sup>(1)</sup>	Balance as of August 31, 2016	Net change in unrealized appreciation/ (depreciation) attributable to Level 3 investments held at August 31, 2016
Investments in Securities* Common								
Stocks	\$3,863,869	\$ -	\$ (368,439)	\$ 4,211,441	\$ -	\$ (7,706,871)	\$ -	\$ -
Totals	\$3,863,869	\$ -	\$ (368,439)	\$ 4,211,441	\$ -	\$ (7,706,871)	\$ -	\$ -

\*For detailed country descriptions, see the accompanying Schedule of Investments.

<sup>(1)</sup>Trading of the security was halted, the security resumed trading on December 14, 2015.

2. Foreign Currency Translation: The accounting records of the Fund are maintained in U.S. Dollars. Prices of securities and other assets and liabilities denominated in non-U.S. currencies are translated into U.S. Dollars using the exchange rate at 4:00 p.m., Eastern Time. Amounts related to the purchases and sales of securities, investment income and expenses are translated at the rates of exchange prevailing on the respective dates of such transactions.

Net realized gain or loss on foreign currency transactions represents net foreign exchange gains or losses from the closure of forward currency contracts, disposition of foreign currencies, currency gains or losses realized between the trade and settlement dates on security transactions and the difference between the amount of dividends, interest and foreign withholding taxes recorded on the Fund's books and the U.S. Dollar equivalent amount actually received or paid. Net unrealized currency gains and losses arising from valuing foreign currency denominated assets and liabilities, other than security investments, at the current exchange rate are reflected as part of unrealized appreciation/depreciation on translation of assets and liabilities denominated in foreign currencies.

The Fund does not isolate that portion of the results of operations arising as a result of changes in the foreign exchange rates from the changes in the market prices of securities held at period end. The Fund does not isolate the effect of changes in foreign exchange rates from changes in market prices of securities sold during the year. The Fund may invest in foreign securities and foreign currency transactions that may involve risks not associated with domestic investments as a result of the level of governmental supervision and regulation of foreign securities markets and the possibility of political or economic instability, among others.

The Fund has elements of risk, including the risk of loss of principal. There is no assurance that the investment process will consistently lead to successful results. An investment concentrated in sectors and industries may involve greater risk and volatility than a more diversified investment.

3. Securities Transactions and Investment Income: Investment security transactions are accounted for as of the trade date. Dividend income is recorded on the ex-dividend date. Interest income, which includes amortization of premium and accretion of discount, is accrued as earned. Realized gains and losses from securities transactions are determined on the basis of identified cost for both financial reporting and income tax purposes.

4. Leverage: The Fund has entered into a Committed Facility Agreement with BNP Paribas Prime Brokerage International Ltd. (the “BNP Paribas Facility” or “Agreement”), which provides for a committed credit facility to be used as leverage for the Fund. The BNP Paribas Facility provides for secured, committed lines of credit for the Fund, where selected Fund assets are pledged against advances made to the Fund. Under the 1940 Act, the Fund, after any such borrowings, must have “asset coverage” of at least 300% (33 1/3% of the Fund’s Total Assets after borrowings). Under the current terms, the total amount of loans that may be outstanding at any one time, or the Maximum Commitment Financing (“MCF”), under the BNP Paribas Facility is \$120,000,000 and €40,000,000. The Fund may reduce the MCF by a total aggregate amount of up to \$20,000,000 upon one business day’s prior notice (no more than one time per calendar month). The Fund pays 0.70% per annum above 3-month LIBOR for the U.S. Dollar line and 0.70% above the 3-month EURIBOR for the Euro line. The Fund pays a commitment fee of 0.50% on the undrawn MCF.

On July 23, 2014, \$60,000,000 of the U.S. Dollar line was fixed at a rate of 2.453% for a five year period. The fund paid an arrangement fee of 0.25% on the fixed rate borrowing.

As of August 31, 2016, the Fund had \$45,000,000 and €32,000,000 in leverage outstanding on the variable lines and \$60,000,000 outstanding on the fixed line. The daily average amounts outstanding over the period on the variable line was \$27,392,727, with an average rate on the borrowing of 1.35%, and €30,472,727, with the average rate on borrowing of 0.70%.

The unused amount under the BNP Paribas Facility was \$15,000,000 and €8,000,000 at August 31, 2016. The loan payable is carried at value, and the Euro line is adjusted daily for foreign currency translation. At August 31, 2016, the Fund maintained an asset coverage of 322% and the market value of the securities pledged as collateral for the BNP Paribas Facility totaled \$288,979,904.

5. Lending of Portfolio Securities: From time to time the Fund may lend portfolio securities to broker-dealers and banks. The loans are secured by collateral in the form of cash that is equal to at least 102% of the fair value of the U.S. securities, and at least 105% of the fair value of the non-U.S. securities loaned plus accrued interest, if any. The collateral must have a market value at least equal to 100% of the market value of the loaned securities at all times during the duration of the loan. Security lending income represents the income earned on investing cash collateral, less rebates paid to borrowers and any lending agent fees associated with the loan, plus any premium payments received for lending certain types of securities. Gain or loss in the fair value of the securities loaned that may occur during the term of the loan will be for the account of the Fund. Under the lending agreement, the Fund has the right under the lending agreement to recover the securities from the borrower on demand, and loans are subject to termination by the lending Fund or the borrower at any time. While the lending Fund does not have the right to vote securities on loan, it intends, to the extent practicable, to terminate the loan and regain the right to vote if the matter to be voted upon is considered significant with respect to the investment. The risks of securities lending are that the borrower may not provide additional collateral when required or return the securities when due, which could result in losses to the Fund. The Fund receives cash collateral that is invested in the Invesco Short-Term Investments Trust Treasury Portfolio. This collateral must be valued daily; should the market value of the loaned securities increase, the borrower must furnish additional collateral to the lending Fund. The Fund bears the risk of any income or gains and losses from investing and reinvesting cash pledged as collateral. During the time portfolio securities are on loan, the borrower pays the lending Fund the economic equivalent of any dividends or interest paid on such securities. In the event the borrower defaults on its obligation to the lending Fund, the lending Fund could experience delays in recovering its securities and possible capital losses. The Fund terminated its third party securities lending arrangement on August 2, 2016.

6. Income Tax: As of August 31, 2016, net unrealized appreciation/depreciation of investments based on federal tax costs was as follows:

Gross appreciation on investments (excess of value over tax cost)	\$36,799,766
Gross depreciation on investments (excess of tax cost over value)	(43,722,835 )
Net unrealized depreciation	\$(6,923,069 )
Total cost for federal income tax purposes	\$447,477,730

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Item 2. Controls and Procedures.

(a) The registrant's principal executive officer and principal financial officer have evaluated the registrant's disclosure controls and procedures (as defined in Rule 30a-3(c) under the Investment Company Act of 1940) within 90 days of this filing and have concluded that the registrant's disclosure controls and procedures were effective, as of that date.

(b) There was no change in the registrant's internal control over financial reporting (as defined in Rule 30a-3(d) under the Investment Company Act of 1940) during registrant's last fiscal quarter that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting.

Item 3. Exhibits.

Separate certifications for the registrant's principal executive officer and principal financial officer, as required by Section 302 of the Sarbanes-Oxley Act of 2002 and Rule 30a-2(a) under the Investment Company Act of 1940, are attached as Ex99.CERT.

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SIGNATURES

Pursuant to the requirements of the Securities Exchange Act of 1934 and the Investment Company Act of 1940, the registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

Macquarie Global Infrastructure Total Return Fund Inc.

By: /s/ Brad Frishberg  
Brad Frishberg  
Chief Executive Officer/Principal Executive Officer

Date: October 19, 2016

Pursuant to the requirements of the Securities Exchange Act of 1934 and the Investment Company Act of 1940, this report has been signed below by the following persons on behalf of the registrant and in the capacities and on the dates indicated.

By: /s/ Brad Frishberg  
Brad Frishberg  
President, Chief Executive Officer/Principal Executive Officer

Date: October 19, 2016

By: /s/ Meredith Meyer  
Meredith Meyer  
Treasurer, Chief Financial Officer/Principal Financial Officer

Date: October 19, 2016