Exhibit No.: Issue(s): Witness: Sponsoring Party: Case No.:

Rate of Return Trippensee/Direct Public Counsel ER-2007-0004

### **DIRECT TESTIMONY**

OF

### **RUSSELL W. TRIPPENSEE**

Submitted on Behalf of The Office of the Public Counsel

AQUILA, INC.

Case No. ER-2007-0004

January 18, 2007

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<u>OPC</u> council and <u>403</u> Data <u>4-4-07</u> Case No. <u>ER-200</u>7-0004 Reportes\_\_\_\_ mυ

FILED MAY 3 2007 Missouri Public Service Commission

### **BEFORE THE PUBLIC SERVICE COMMISSION OF THE STATE OF MISSOURI**

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In the matter of Aquila, Inc. d/b/a Aquila Networks-MPS and Aquila Networks-L&P, for authority to file tariffs increasing electric rates for the service provided to customers in the Aquila Networks-MPS and Aquila Networks-L&P service area.

Case No. ER-2007-0004

### **AFFIDAVIT OF RUSSELL W. TRIPPENSEE**

STATE OF MISSOURI ) ) ss COUNTY OF COLE )

Russell W. Trippensee, of lawful age and being first duly sworn, deposes and states:

1. My name is Russell W. Trippensee. I am the Chief Public Utility Accountant for the Office of the Public Counsel.

2. Attached hereto and made a part hereof for all purposes is my direct testimony.

3. I hereby swear and affirm that my statements contained in the attached testimony are true and correct to the best of my knowledge and belief.

Russell W. Trippensee

Subscribed and sworn to me this 18th day of January 2007.

KATHLEEN HARRISON Notary Public - Notary Seal State of Missouri - County of Cole Commission Expires Jan. 31, 2010 Commission #06399239

Kathleen Harrison Notary Public

My commission expires January 31, 2010.

#### DIRECT TESTIMONY

#### OF

#### RUSSELL W. TRIPPENSEE

### AQUILA, INC. CASE NO. ER-2007-0004

- 1 Q. PLEASE STATE YOUR NAME AND ADDRESS.
- A. Russell W. Trippensee. I reside at 1020 Satinwood Court, Jefferson City, Missouri 65109, and my
  business address is P.O. Box 2230, Jefferson City, Missouri 65102.

### 4 Q. BY WHOM ARE YOU EMPLOYED AND IN WHAT CAPACITY?

A. I am the Chief Utility Accountant for the Missouri Office of the Public Counsel (OPC or Public
Counsel).

### 7 Q. PLEASE DESCRIBE YOUR EDUCATIONAL BACKGROUND.

A. I attended the University of Missouri at Columbia, from which I received a BSBA degree, major in
 Accounting, in December 1977. I also acquired the requisite hours for a major in Finance. I attended
 the 1981 NARUC Annual Regulatory Studies Program at Michigan State University.

### 11 Q. ARE YOU A CERTIFIED PUBLIC ACCOUNTANT?

12 A. Yes, I hold certificate/license number 2004012797 in the State of Missouri.

### 13 Q. PLEASE DESCRIBE YOUR WORK EXPERIENCE.

A. From May through August, 1977, I was employed as an Accounting Intern by the Missouri Public
Service Commission (MPSC or Commission). In January 1978 I was employed by the MPSC as a
Public Utility Accountant I. I left the MPSC Staff (Staff) in June 1984 as a Public Utility Accountant
III and assumed my present position.

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### 1 Q. PLEASE DESCRIBE YOUR PROFESSIONAL AFFILIATIONS.

A. I served as the chairman of the Accounting and Tax Committee for the National Association of State
 Utility Consumer Advocates from 1990-1992 and am currently a member of the committee. I am a
 member of the Missouri Society of Certified Public Accountants.

## Q. PLEASE DESCRIBE YOUR WORK WHILE YOU WERE EMPLOYED BY THE MPSC STAFF.

A. Under the direction of the Chief Accountant, I supervised and assisted with audits and examinations
of the books and records of public utility companies operating within the State of Missouri with
regard to proposed rate increases.

## 10Q.WHAT IS THE NATURE OF YOUR CURRENT DUTIES WITH THE OFFICE OF11THE PUBLIC COUNSEL?

A. I am responsible for the Accounting section of the Office of the Public Counsel and coordinating our
 activities with the rest of our office and other parties in rate proceedings. I am also responsible for
 performing audits and examinations of public utilities and presenting the findings to the MPSC on
 behalf of the public of the State of Missouri.

### 16 Q. HAVE YOU PREVIOUSLY FILED TESTIMONY BEFORE THE MPSC?

A. Yes. I filed testimony in the cases listed on Schedule RWT-1 of my testimony on behalf of the
Missouri Office of the Public Counsel or MPSC Staff.

### 19 Q. WHAT IS THE PURPOSE OF YOUR DIRECT TESTIMONY?

A. To address the revenue requirement implications if a Fuel Adjustment Clause (FAC) is authorized by
the Commission for Aquila's operating divisions, Missouri Public Service (MPS) and St. Joseph

1		Light & Power (L&P). Specifically, I will address the impact on the authorized return on equity and
2		the overall rate of return. Inherent in return on equity is a risk component and the change in this risk
3		must be accounted for, if the proposed change in rate design is adopted that incorporates a FAC. The
4		authorized return on equity is used to determine the overall rate of return which has a direct impact on
5		the revenue requirement.
6	Q.	DOES PUBLIC COUNSEL SUPPORT A FUEL ADJUSTMENT CLAUSE FOR
7		AQUILA?
8	А.	No. Public Counsel witness Ryan Kind will address the basis for this opposition in his direct
9		testimony along with other considerations.
10		Fuel Adjustment Clause – Risk Reduction
11	Q.	PLEASE EXPLAIN HOW PUBLIC COUNSEL'S WITNESSES WILL ADDRESS
11 12	Q.	PLEASE EXPLAIN HOW PUBLIC COUNSEL'S WITNESSES WILL ADDRESS CONCERNS REGARDING FUEL ADJUSTMENT CLAUSES AND ITS SPECIFIC
	Q.	
12	Q. A.	CONCERNS REGARDING FUEL ADJUSTMENT CLAUSES AND ITS SPECIFIC
12 13		CONCERNS REGARDING FUEL ADJUSTMENT CLAUSES AND ITS SPECIFIC APPLICATION TO AQUILA.
12 13 14		CONCERNS REGARDING FUEL ADJUSTMENT CLAUSES AND ITS SPECIFIC APPLICATION TO AQUILA. I will address the impacts of the change in risk Aquila will face if a FAC is authorized by this
12 13 14 15 16	А.	CONCERNS REGARDING FUEL ADJUSTMENT CLAUSES AND ITS SPECIFIC APPLICATION TO AQUILA. I will address the impacts of the change in risk Aquila will face if a FAC is authorized by this Commission and how the Commission should recognize this change in the authorized return on equity. Public Counsel witness Ryan Kind will also address aspects of the FAC.
12 13 14 15 16		CONCERNS REGARDING FUEL ADJUSTMENT CLAUSES AND ITS SPECIFIC APPLICATION TO AQUILA. I will address the impacts of the change in risk Aquila will face if a FAC is authorized by this Commission and how the Commission should recognize this change in the authorized return on equity. Public Counsel witness Ryan Kind will also address aspects of the FAC. PLEASE EXPLAIN THE RELATIONSHIP BETWEEN REVENUE REQUIREMENT
12 13 14 15 16 17 18	А. Q.	CONCERNS REGARDING FUEL ADJUSTMENT CLAUSES AND ITS SPECIFIC APPLICATION TO AQUILA. I will address the impacts of the change in risk Aquila will face if a FAC is authorized by this Commission and how the Commission should recognize this change in the authorized return on equity. Public Counsel witness Ryan Kind will also address aspects of the FAC. PLEASE EXPLAIN THE RELATIONSHIP BETWEEN REVENUE REQUIREMENT AND A FUEL ADJUSTMENT CLAUSE.
12 13 14 15 16	А.	CONCERNS REGARDING FUEL ADJUSTMENT CLAUSES AND ITS SPECIFIC APPLICATION TO AQUILA. I will address the impacts of the change in risk Aquila will face if a FAC is authorized by this Commission and how the Commission should recognize this change in the authorized return on equity. Public Counsel witness Ryan Kind will also address aspects of the FAC. PLEASE EXPLAIN THE RELATIONSHIP BETWEEN REVENUE REQUIREMENT

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requirement is only minimally affected by the rate design methods. A FAC represents a major shift in the rate design method.

One of the basic purposes of rate design is to develop tariff rates that will bill the customers for an amount equal to the total revenue requirement over the course of the ensuing years under the assumption that all factors during that year occur just as anticipated in the development of the revenue requirement. A significant majority of the revenue requirement is collected via tariff rates that result in customer bill components that are fixed on a monthly basis (normally called a customer charge) or vary month to month based on usage (normally called a commodity charge).

## 9 Q. IS IT A REASONABLE ASSUMPTION THAT ALL FACTORS DURING THE 10 ENSUING YEARS WILL ACTUALLY BE THE SAME AS THOSE USED IN THE 11 DEVELOPMENT OF THE REVENUE REQUIREMENT?

12 Public utilities are dynamic industries that serve a dynamic economy. A multitude of changes occur A. each and every day for a large electric utility. However, the regulatory practice of looking at earnings 13 14 addresses that dynamic environment because it is the relationship of revenue less expense as a percentage of investment (i.e. return on equity) that is critical to the process. Each and every factor in 15 16 the utility's operations could change, customer levels could change, and other factors influencing the earnings could change. However if the resulting earnings remain equal to that authorized by the 17 Commission, the tariff rates remain reasonable until such time as the Commission determines a 18 19 different return on equity is appropriate.

## 20 Q. HOW DOES A FUEL ADJUSTMENT CLAUSE CHANGE THE REGULATORY RATE 21 OF RETURN MODEL?

A. FACs are designed to recover specific costs, usually limited to fuel and fuel related costs to operate
 electric generation power plants and purchased power costs. Therefore the resulting FAC rates result
 in revenue that equals the specific costs to be recovered over time, and any potential impact on
 earnings is removed. A FAC is nothing more than a complex cost recovery system which will take
 significant regulatory resources in order to provide the ratepayer protection.

## Q. WHAT IS THE RELATIONSHIP BETWEEN REVENUES, FUEL EXPENSE, AND 7 EARNINGS UNDER TRADITIONAL REGULATION?

A. The component of the tariff rate, usually the commodity charge, is based on the level of fuel expense
(and other costs that would be included in a FAC) used in the determination of the revenue
requirement. Over time, the level of usage changes, thus creating a difference between those
revenues assumed in the rate case. Similarly, over time due to price changes, actions by utility
management, or other events, fuel expense changes creating a difference from the rate case. The net
result is that the change in actual revenues and fuel expense subsequent to the rate case in all
likelihood results in a level of earnings different than that authorized by the Commission.

# 15Q. DOES A FUEL ADJUSTMENT CLAUSE RESULT IN A CHANGE IN THE16POTENTIAL FOR VARIABILITY IN EARNINGS OF A UTILITY?

A. Yes, a FAC has the potential to eliminate the impact of fuel expense and the resulting FAC revenues
on the earnings of a utility. The utility can neither increase earnings by operating their generating
stations more efficiently nor can earnings decline due to factors such as increased costs or reduced
customer usage. It should be noted that a FAC removes a significant financial incentive to utility
management as it decouples their actions from earnings absent appropriate regulatory oversight of the

1		FAC. Even with appropriate regulatory oversight, the financial implications of management actions
2		would be removed from the time period during which the action occurred.
3	Q.	IS VARIABILITY OF EARNINGS A RISK THAT ALL COMPANIES FACE?
4	А.	Yes, variability of earnings is a business risk that companies face. The degree of variability creates
5		different levels of risk.
6	Q.	COULD YOU DEFINE THE RISK AND THE EXPLAIN THE FUNDAMENTAL
7		DIFFERENCES BETWEEN BUSINESS RISK AND FINANCIAL RISK?
8	А.	Yes. Risk can be defined as the possibility that actual earnings from an asset or an investment may
9		differ from expected earnings. The wider the range of possible earnings, the greater the risk
10		associated with that asset or investment.
11		Business risk is the uncertainty (variability) associated with earnings due to fundamental business
12		conditions faced by the company, such as cyclical markets, weather-sensitive sales, changing
13		technology, unforeseen events, or competition. Business risk is the inherent riskiness of a firm's
14		assets due to the operations of the company and the industry in which in operates. In other words,
15		business risk is not connected to the way the firm finances its assets. The following summarizes
16		business risk.
17 18 19 20 21		Business risk is defined as the uncertainty inherent in the projections of future returns on assets (ROA), and it is the single most important determinant of capital structure. (Fundamentals of Financial Management, Eugene F Brigham & Joel F. Houston, Eighth edition, page 493)
22		Financial risk is the uncertainty associated with earnings available to common shareholders due to
23		debt and/or preferred stock being used to finance the firm's assets. This additional risk stems from

1		the fact that cash flows to common shareholders are subordinate to a firm's required debt service (i.e.
2		a firm must pay its debt service and any preferred dividends before it can pay common dividends.)
3		From a common shareholder's perspective, a firm with less debt and preferred stock in its capital
4		structure has fewer bills to pay before it can allocate earnings to common dividends, and is therefore
5		less risky. The following summarizes financial risk.
6 7 8 9		financial risk is the additional risk placed on the common stockholders as a result of financial leverage. (Fundamentals of Financial Management, Eugene F Brigham & Joel F. Houston, Eight edition, page 498)
10	Q.	DOES A FUEL ADJUSTMENT CLAUSE SIGNIFICANTLY REDUCE THE
11		VARIABILITY OF REVENUES?
12	А.	Yes. Absent a FAC, the actions of Aquila in the operation of its power plants create opportunities to
13		increase profits with sound and prudent decisions. Conversely, poor decisions will most likely cause
14		decreased earnings. There are also other factors that can affect earnings related to fuel costs thus
15		creating additional probability of earnings variation.
16	Q.	WHAT IS THE IMPLICATION OF A FUEL ADJUSTMENT CLAUSE ON THE
17		EARNINGS OF THE COMPANY?
18	A.	The fuel cost associated with serving the customer would be collected in total through a process that I
19		would anticipate include the initial charge for costs to be recovered and a secondary adjustment that
20		reconciles actual charges billed with cost intended to be billed. Thus Aquila would effectively
21		eliminate any earnings variability related to fuel costs for those customer classes who have a FAC as
22		part of their tariffed rate. Thus the risk of earnings variability related to fuel costs will be virtually
23		eliminated for these customer classes and greatly reduced for Missouri jurisdictional operations.

1	Q.	SHOULD THE ELIMINATION OR SIGNIFICANT REDUCTION OF BUSINESS
2		RISK RESULTING FROM A FUEL ADJUSTMENT CLUASE HAVE AN IMPACT
3		ON THE RATE OF RETURN ON EQUITY AUTHORIZED BY THE MPSC?
4	A.	Yes. Failure to recognize the reduction in business risk resulting from a significant decline in the
5		potential variability of earnings would result in rates being paid by customers that compensate
6		stockholders for a risk they no longer have, therefore such rates would not be just and reasonable.
7	Q.	HAVE OTHER AUTHORITIES AND UTILITIES RECOGNIZED THAT A
8		PROCESS THAT MITIGATES THE IMPACT OF FUEL ADJUSTMENT CLAUSES
9		ON EARNINGS SHOULD BE CONSIDERED IN THE AUTHORIZED RATE OF
10		RETURN?
11	A.	Yes. SB179 contained the following language
12 13 14 15 16		The commission may take into account any change in business risk to the corporation resulting from implementation of the adjustment mechanism in setting the corporation's allowed return in any rate proceeding, in addition to any other changes in business risk experienced by the corporation. (Section 386.266.8 RSMo 2005 Supp.)
17	Q.	DOES A FUEL ADJUSTMENT CLAUSE ELIMINATE WEATHER RISK AS IT
18		RELATES TO FUEL COSTS?
19	A.	Yes. The reconciliation procedure in a FAC (I assume it would be similar to the ACA process in a
20		Purchased Gas Adjustment proceeding) will account for the difference in actual sales versus the level
21		of sales used to calculate the initial FAC. Likewise, any change in fuel cost from that level built into
22		the FAC will also be addressed in the reconciliation process or the next FAC.

# 1 Q. DOES A FUEL ADJUSTMENT CLAUSE ELIMINATE FINANCIAL RISK OF A 2 PUBLIC UTILITY?

A. No. Common stock's subordinate status to secured debt with respect to debt service is a legal
principle that is not changed by rate design or other actions by this Commission.

## 5 Q. DOES RISK PROVIDE AN IMPORTANT INCENTIVE TO MANAGEMENT OF THE 6 COMPANY?

7 A. Yes. It is reasonable to believe that utility managers are risk adverse. Therefore, in order to mitigate 8 the effects of risks such as weather, rising fuel costs, volatility of specific fuels such as natural gas, 9 and other factors effecting total fuel costs a electric utility's management has an incentive to take steps to not only operate the utility in an efficient manner but also plan its acquisition of generation 10 resources appropriately. If the financial impacts of these decisions are removed via a mechanism that 11 assures cost recovery, the incentive to operate the utility efficiently is also reduced because the risk to 12 which management would be adverse has been reduced or eliminated. It could be argued that the 13 reduction in risk as a result of a change in rate design would similarly reduce the incentive to find new 14 15 efficiencies or at least reduce the level of priority placed on such activities. Public Counsel does not believe ratepayers are protected by removing financial incentives for management efficiency leaving 16 17 only the possibility of after-the-fact regulatory oversight through prudency reviews as an incentive for 18 management efficiency.

### 19 Q. DOES THIS CONCLUDE YOUR DIRECT TESTIMONY?

20 A.

Yes.

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Missouri Power & Light Company, Steam Dept., Case No. HR-82-179 Missouri Power & Light Company, Electric Dept., Case No. ER-82-180 Missouri Edison Company, Electric Dept., Case No. ER-79-120 Southwestern Bell Telephone Company, Case No. TR-79-213 Doniphan Telephone Company, Case No. TR-80-15 Empire District Electric Company, Case No. ER-83-43 Missouri Power & Light Company, Gas Dept., Case No. GR-82-181 Missouri Public Service Company, Electric Dept., Case No. ER-81-85 Missouri Water Company, Case No. WR-81-363 Osage Natural Gas Company, Case No. GR-82-127 Missouri Utilities Company, Electric Dept., Case No. ER-82-246 Missouri Utilities Company, Gas Dept., Case No. GR-82-247 Missouri Utilitites Company, Water Dept., Case No. WR-82-248 Laclede Gas Company, Case No. GR-83-233 Great River Gas Company, Case No. GR-85-136 (OPC) Northeast Missouri Rural Telephone Company, Case No. TR-85-23 (OPC) United Telephone Company, Case No. TR-85-179 (OPC) Kansas City Power & Light Company, Case No. ER-85-128 (OPC) Arkansas Power & Light Company, Case No. ER-85-265 (OPC) KPL/Gas Service Company, GR-86-76 (OPC) Missouri Cities Water Company, Case Nos. WR-86-111, SR-86-112 (OPC) Union Electric Company, Case No. EC-87-115 (OPC) Union Electric Company, Case No. GR-87-62 (OPC) St. Joseph Light and Power Company, Case Nos. GR-88-115, HR-88-116 (OPC) St. Louis County Water Company, Case No. WR-88-5 (OPC) West Elm Place Corporation, Case No. SO-88-140 (OPC) United Telephone Long Distance Company, Case No. TA-88-260 (OPC) Southwestern Bell Telephone Company, Case No. TC-89-14, et al. (OPC) Osage Utilities, Inc., Case No. WM-89-93 (OPC) GTE North Incorporated, Case Nos. TR-89-182, TR-89-238, TC-90-75 (OPC) Contel of Missouri, Inc., Case No. TR-89-196 (OPC) The Kansas Power and Light Company, Case No. GR-90-50 (OPC) Southwestern Bell Telephone Company, Case No. TO-89-56 (OPC) Capital City Water Company, Case No. WR-90-118 (OPC) Laclede Gas Company, Case No. GR-90-120 (OPC) Southwestern Bell Telephone Company, Case No. TR-90-98 (OPC)

Empire District Electric Company, Case No. ER-90-138 (OPC) Associated Natural Gas Company, Case No. GR-90-152 (OPC) Southwestern Bell Telephone Company, Case No. TO-91-163 (OPC) Union Electric Company, Case No. ED-91-122 (OPC) Missouri Public Service, Case Nos. EO-91-358 and EO-91-360 (OPC) The Kansas Power and Light Company, Case No. GR-91-291 (OPC) Southwestern Bell Telephone Co., Case No. TO-91-163 (OPC) Union Electric Company, EM-92-225 and EM-92-253 (OPC) Southwestern Bell Telephone Company, TO-93-116(OPC) (OPC) Missouri Public Service Company, ER-93-37, (January, 1993) (OPC) Southwestern Bell Telephone Company, TO-93-192, TC-93-224 (OPC) Saint Louis County Water Company, WR-93-204 (OPC) United Telephone Company of Missouri, TR-93-181 (OPC) Raytown Water Company, WR-94-300 (OPC) Empire District Electric Company, ER-94-174 (OPC) Raytown Water Company, WR-94-211 (OPC) Missouri Gas Energy, GR-94-343 (OPC) Capital City Water Company, WR-94-297 (OPC) Southwestern Bell Telephone Company, TR-94-364 (OPC) Missouri Gas Energy, GR-95-33 (OPC) St. Louis County Water Company, WR-95-145 (OPC) Missouri Gas Energy, GO-94-318 (OPC) Alltel Telephone Company of Missouri, TM-95-87 (OPC) Southwestern Bell Telephone Company, TR-96-28 (OPC) Steelville Telephone Exchange, Inc., TR-96-123 (OPC) Union Electric Company, EM-96-149 (OPC) Imperial Utilites Corporation, SC-96-247 (OPC) Laclede Gas Company, GR-96-193 (OPC) Missouri Gas Energy, GR-96-285 (OPC) St. Louis County Water Company, WR-96-263 (OPC) Village Water and Sewer Company, Inc. WM-96-454 (OPC) Empire District Electric Company, ER-97-82 (OPC) UtiliCorp d/b/a Missouri Public Service Company, GR-95-273 (OPC) Associated Natural Gas, GR-97-272 (OPC) Missouri Public Service, ER-97-394, ET-98-103 (OPC) Missouri Gas Energy, GR-98-140 (OPC)

Schedule RWT-1

St. Louis County Water, WO-98-223 (OPC) United Water Missouri, WA-98-187 (OPC) Kansas City Power & Light/Western Resources, Inc. EM-97-515 (OPC) St. Joseph Light & Power Company, HR-99-245 (OPC) St. Joseph Light & Power Company, GR-99-246 (OPC) St. Joseph Light & Power Company, ER-99-247 (OPC) AmerenUE, EO-96-14, (prepared statement) (OPC) Missouri American Water Company, WR-2000-281 (OPC) Missouri American Water Company, SR-2000-282 (OPC) UtiliCorp United Inc./St. Joseph Light & Power Company, EM-2000-292 (OPC) UtiliCorp United Inc./Empire District Electric Company, EM-2000-369 (OPC) St. Joseph Light & Power Company, EO-2000-845 (OPC) St. Louis County Water Company, WR-2000-844 (OPC) Union Electric Company, EO-2001-245 (OPC) Laclede Gas Company, GM-2001-342 (OPC) Empire District Electric Company, ER-2001-299 (OPC) Missouri-American Water Company, et. al., WM-2001-309 (OPC) AmerenUE, EC-2002-152, GC-2002-153 (OPC) UtiliCorp United Inc., ER-2001-672 (OPC) Aquila, Inc., GO-2002-175 (OPC) AmerenUE, ER-2002-001 (OPC) Laclede Gas Company, GA-2002-429 (OPC) AmerenUE, GR-2003-0517 (OPC) Algonquin Water Resources of Missouri & Silverleaf Resort, Inc. WO-2005-0206 (OPC) Kansas City Power & Light Company, Case No. EO-2005-0329 (OPC) Empire District Electric Company, Case No. ER-2006-0315 (OPC) Kansas City Power & Light Company, Case No. ER-2006-0314 (OPC) Atmos Energy Corporation, Case No. GR-2006-0387 (OPC) Missouri Gas Energy, Case No. GR-2006-0422 (OPC) Aquila, Inc., ER-2007-0004 (OPC)