Guc William J Form 3 December 03, 2010

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

OMB APPROVAL

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SECURITIES Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934,

INITIAL STATEMENT OF BENEFICIAL OWNERSHIP OF

Section 17(a) of the Public Utility Holding Company Act of 1935 or Section

30(h) of the Investment Company Act of 1940

(Print or Type Responses)

1. Name and Address of Reporting 2. Date of Event Requiring 3. Issuer Name and Ticker or Trading Symbol Person * Statement INTEGRYS ENERGY GROUP, INC. [TEG] Guc William J (Month/Day/Year) 12/01/2010 (Last) (First) (Middle) 4. Relationship of Reporting 5. If Amendment, Date Original Person(s) to Issuer Filed(Month/Day/Year) 130 EAST RANDOLPH DRIVE (Check all applicable) (Street) 6. Individual or Joint/Group Filing(Check Applicable Line) 10% Owner Director _X_ Form filed by One Reporting _X__ Officer Other Person CHICAGO, ILÂ 60601 (give title below) (specify below) Form filed by More than One Vice President and Treasurer Reporting Person (City) (State) (Zip) Table I - Non-Derivative Securities Beneficially Owned 2. Amount of Securities 4. Nature of Indirect Beneficial 1. Title of Security Beneficially Owned Ownership (Instr. 4) Ownership (Instr. 4) Form: (Instr. 5) Direct (D) or Indirect (I) (Instr. 5) Common Stock Ι 1,587.0662 By ESOP Common Stock 561 I by Stk Invest Plan Reminder: Report on a separate line for each class of securities beneficially SEC 1473 (7-02) owned directly or indirectly. Persons who respond to the collection of

information contained in this form are not required to respond unless the form displays a

currently valid OMB control number.

Table II - Derivative Securities Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

1. Title of Derivative Security (Instr. 4)	2. Date Exercisable and Expiration Date (Month/Day/Year)	3. Title and Amount of Securities Underlying Derivative Security (Instr. 4)	4. Conversion or Exercise Price of Derivative	5. Ownership Form of Derivative Security:	6. Nature of Indirect Beneficial Ownership (Instr. 5)
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	Date Exercisable	Expiration Date	Title	Amount or Number of Shares	Security	Direct (D) or Indirect (I) (Instr. 5)	
Phantom Stock Unit	(1)	(2)	Common Stock	1,621.5765	\$ (3)	D	Â
Restricted Stock Units 2008	(4)	(4)	Common Stock	269.8857	\$ <u>(5)</u>	D	Â
Restricted Stock Units 2009	(6)	(6)	Common Stock	1,168.187	\$ <u>(5)</u>	D	Â
Restricted Stock Units 2010	(7)	(7)	Common Stock	2,034.6216	\$ <u>(5)</u>	D	Â

Reporting Owners

Reporting Owner Name / Address	Relationships				
	Director	10% Owner	Officer	Other	
Guc William J 130 EAST RANDOLPH DRIVE CHICAGO, IL 60601	Â	Â	Vice President and Treasurer	Â	

Signatures

By: Dane E. Allen, as Power of Attorney For:
Mr. Guc

12/03/2010

**Signature of Reporting Person Date

Explanation of Responses:

- * If the form is filed by more than one reporting person, see Instruction 5(b)(v).
- ** Intentional misstatements or omissions of facts constitute Federal Criminal Violations. See 18 U.S.C. 1001 and 15 U.S.C. 78ff(a).
- (1) Unless the participant has selected a later commencement date, distribution of stock and equivalents will commence within 60 days following the end of the calendar year in which occurs the participant's retirement or termination of service.
- (2) Unless the participant has selected a later commencement date, distribution of stock and equivalents will commence within 60 days following the end of the calendar year in which occurs the participant's retirement or termination of service.
- (3) These phantom stock units convert to common stock on a one-for-one basis.
- (4) The restricted stock units vest in four equal annual installments beginning on February 14, 2009.
- (5) Each restricted stock unit represent a contingent right to receive one share of TEG common stock.
- (6) The restricted stock units vest in four equal annual installments beginning on February 12, 2010.
- (7) The restricted stock units vest in four equal annual installments beginning on February 11, 2011.

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, *See* Instruction 6 for procedure. Potential persons who are to respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB number.

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