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TOLLGRADE DSL TEST TECHNOLOGY SELECTED FOR SOUTH AFRICAN DEPLOYMENT

PITTSBURGH, PA, September 16, 2005 – Tollgrade Communications, Inc. (NASDAQ: TLGD), a leader in the telecom test and management industry, announced today that they have signed an agreement with TeleSciences (Pty) Ltd to provide DSL testing solutions for deployment throughout Telkom South Africa.

The technology solution chosen for deployment includes Tollgrade's LoopCare™ Test Operations Support System (OSS) and the DigiTest® EDGE® broadband test platform. Following an extensive evaluation and field trial process, Tollgrade's testing technology was selected for comprehensive testing of DSL services provided to subscribers in the Republic of South Africa. Tollgrade expects to see the bulk of the benefits of these sales during 2005 and 2006.

"This is another major win in the international arena, further validating Tollgrade's solutions for broadband services," said Mark Peterson, president and CEO of Tollgrade. "Telkom South Africa is the largest telecommunications provider on the African continent and Tollgrade is proud to be a part of helping them deliver reliable and cost effective DSL services to consumers."

"Telesciences, with our partner Tollgrade Communications, are pleased to be the technology of choice for Telkom South Africa. The Tollgrade testing system implemented by Telkom is a significant milestone in the "ADSL service assurance environment" and is testament to Telkom's commitment to roll out DSL services countrywide," said Noel Wright, COO of Telesciences.

LoopCare Test OSS is a leading loop test and management system, testing more than 150 million access lines worldwide. Every Regional Bell Operating Company (RBOC) and many other leading local exchange carriers use LoopCare for their loop testing.

The DigiTest EDGE Broadband Test Head for use in the evolving broadband network is located at the network's edge. DigiTest EDGE is a powerful multi-layer test and management solution used to accurately qualify potential customers for broadband services, verify provisioning prior to service activation, and isolate multi-layered network faults.

About Tollgrade

Tollgrade Communications, Inc. is a full-system provider of leading hardware and software testing solutions for the global telecommunications and cable broadband industries. Tollgrade designs, engineers, markets and supports test systems, test access and status monitoring products. The Company, which is headquartered in the Pittsburgh suburb of Cheswick, Pa., recorded 2004 revenues of \$62.8 million. The Company's web address is www.tollgrade.com.

TOLLGRADE COMMUNICATIONS, INC.

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Telco Support: 800-777-5405 / Cable Support (TAC): 941-373-6850 or 888-486-3510
www.tollgrade.com

About Telesciences

TeleSciences (Pty) Ltd is a wholly owned division of Jasco Electronics Holdings Ltd ("Jasco") which has been listed on the JSE Securities Exchange of SA (JSE) since 1987. TeleSciences is engaged in the supply, support and development of Access solutions for the Telecommunications market. Jasco Electronics Holdings Ltd is one of the top Black Economic Empowerment (BEE) companies in South Africa. Its BEE partner, Community Investment Holdings, owns 35% of the group shareholding with 56% control through voting rights, which confirms Telesciences' commitment to change. The Company's web address is www.telesciences.co.za.

Forward-Looking Statements

The foregoing release contains "forward looking statements" regarding future events or results within the meaning of Section 27A of the Securities Act of 1933, as amended, and Section 21E of the Securities Exchange Act of 1934, as amended, including statements concerning the Company's current expectations regarding revenue from a contract for sale of products into South Africa. The Company cautions readers that such "forward looking statements" are, in fact, predictions that are subject to risks and uncertainties and that actual events or results may differ materially from those anticipated events or results expressed or implied by such forward looking statements. The Company disclaims any current intention to update its "forward looking statements," and the estimates and assumptions within them, at any time or for any reason.

In particular, the following factors, among others could cause actual results to differ materially from those described in the "forward looking statements:" (a) possible delays in deployment of products under the Telesciences contract due to project delays, political instability, inability to obtain proper acceptances or other unforeseen delays; (b) delays in or failure to consummate the sale of products to Telesciences under the Agreement; (c) our dependence upon a limited number of third party subcontractors to manufacture certain aspects of the products we sell; and (d) the uncertain economic and political climate in the United States and throughout the rest of the world and the potential that such climate may deteriorate. Other factors that could cause actual events or results to differ materially from those contained in the "forward looking statements" are included in the Company's filings with the U.S. Securities and Exchange Commission (the "SEC") including, but not limited to, the Company's Form 10-K for the year ended December 31, 2005 and any subsequently filed reports. All documents are also available through the SEC's Electronic Data Gathering Analysis and Retrieval system at www.sec.gov or from the Company's website at www.tollgrade.com.

TMLoopCare is a trademark of Tollgrade Communications, Inc.

® DigiTest and EDGE are registered trademarks of Tollgrade Communications, Inc.

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