UNIVERSITY OF CALGARY

FACULTY OF ENGINEERING

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October 23, 2002

TO WHOM IT MAY CONCERN

Dr. Devendra Kumar Chaturvedi worked with me at the University of Calgary as BOYSCAST Scholar from March 1, 2002 to October 31, 2002. During this period he did both theoretical and experimental research in the area of power systems control in the power systems laboratory, Department of Electrical and Computer Engineering.

Based on the research conducted during his 8 months stay in Calgary, Dr. Chaturvedi has submitted five papers to reputed international journals. The papers are in various stages of review at present.

Dr. Chaturvedi visited the Arizona State University, Tempe, Arizona, U.S.A. and presented a paper titled, "Power system stabilizer using generalized neural network" at the 34th North American Power Symposium System held on October 14-15, 2002. He has recently submitted another paper to an international conference to be held in Greece.

He has traveled around in Alberta and British Columbia provinces in Canada to have some appreciation of the country and be exposed to the cultural aspects.

Dr. Chaturvedi has worked extremely hard during his stay in Calgary. Completion of research and submission of 7 papers (5 journal + 2 conference) is a remarkable achievement by any standards. One particular aspect worth mentioning is his exposure to the experimental work in the laboratory, which he undertook enthusiastically. I would certainly assess his performance at ten on a scale of 1 – 10.

Dr. O. P. Malik, Faculty Professor
Department of Electrical & Computer Engineering

OPM/jf

FACULTY OF ENGINEERING
DAYALBAGH EDUCATIONAL INSTITUTE
(Deemed University)
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Ref. No. D /Engg./ 126

Date DEC. 17, 2002

TO WHOM IT MAY CONCERN

Dr. Devendra Kumar Chaturvedi , Reader, Faculty of Engineering, D.E.I. (Deemed University), Dayalbagh, Agra worked with Prof. O.P. Malik at Dept. Of Electrical and Computer Engineering, University of Calgary, Calgary, AB, Canada as BOYSCAST Fellow for eight months from March 1st 2002 to October 31st 2002.

During this period he worked very hard and developed a generalized neuron (GN) model to overcome the drawbacks of Artificial Neural Network (ANN) like large training time, huge training data, big size ANN etc. Taking benefit of the GN, a new intelligent and adaptive power system stabilizer (PSS) has been developed to overcome the low frequency oscillations in electrical power system. The GN adaptive based PSS developed is experimentally tested on a single machine infinite bus system in the power system research Lab at University of Calgary, Canada.

Based on the research conducted there he has submitted five papers in reputed journals and two papers in international conferences. The papers are in various stages of review.

He also participated in 34th North American Power Symposium at Arizona State University, Tempe, Arizona, USA and presented a research paper titled, "Power system stabilizer using generalized neural network". He also visited Power Electronics Lab, HV Lab, Electrical Machines Lab at Arizona State University.

17/12/02

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