High Performance PV

Designing and delivering PV systems for high output, low maintenance and long life

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Date: Monday, March 24, 2015

To: US Citizenship & Immigration Service

From: John R. Balfour MEP, PhD, PV Systems Cosmologist; President & CTO, High Performance PV

RE: Recommendation letter for Pramod Krishnani for Green Card application with National Interest Waiver

I am writing on behalf of Pramod Krishnani in support of his application for a Green Card with National Interest Waiver.

My experience as an experienced PV professional in the renewable energy industry dates back to 1977. The focus of my work is on improving PV Performance, Reliability and Optimization (PRO) to improve quality, system life, reduce project and financial risk in all phases of PV System delivery from concept through dismantlement. In that process developed PV System Design and Application Theory (PV SDAT) and in collaboration with others, Preemptive Analytical Maintenance (PAM). All of my work is collaboratively based.

One of my contracts is with Sandia National Laboratories to engage stakeholders industry wide, address issues which are serious impediments to industry cost reduction, growth and maturity. That contract has resulted in the publication of 2 Sandia papers as a co-author; a gaps analysis in our industry standards and the development of consistent industry wide definitions referred to as Key Performance Indicators (KPIs). We will be completing 3 papers this year on issues related to: PAM, development of an industry Map that addresses the causality between decisions that are made and their outcome allowing the tracking of cause-and-effect both visually and in text, and finally, development of a "Model Contract" for the industry addressing Operations and Maintenance (O&M), the different levels of system availability, including nonstandard items.

As chair of an industry subcommittee on PV system Definitions for Availability and Maintenance, we have stimulated the issues that resulted in those three papers being requested by Sandia. The seriousness of the work can be measured in the fact that I requested 4 volunteers and have an active committee today of 34.

In short, much of this work deals with the transition of the PV industry towards a more professional and mature energy industry. It has drawn some of the best, most intelligent and frustrated minds in the industry.

I have known Pramod since August 8, 2014 when he joined my subcommittee. Within a very short time he began working with me directly in the effort to develop not only the definitions but the mapping process. His experience is primarily in the analytic data side of the industry for analysis of performance, revenues and other issues. As we worked closely together, he has been a quick learner on the issues of cause-and-effect and has become the primary contributor to our work. We work together to pull the disparate segments in the industry, its practices and experience towards a common language, culture and industry wide common practices. It has moved ahead greatly in no small part due too Pramod's insights and contributions along with his ability to see the relationships, get more importantly convert complex issues into simple graphics.

I believe without his many hours of donated time, intellect, effort and thought processes we would not be as far ahead in our work as we are. His efforts are helping to shape the industry in a manner that normally takes decades, yet will be reduced to less than 5 years. Therefore, I unconditionally recommend Pramod as a great asset to our nation's short, medium and long-term energy development and security interests.

I encourage you to provide Pramod a positive outcome for his Green Card application with National Interest Waiver.

If you have any further questions please feel free to contact me.

Sincerely,

John R. Balfour
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