Tianwan, China

Mission Date; 26 Jan.-12 Feb., 2004

At Tianwan NPS, there are two computer codes, specifically for analyzing the operability of fuel rods under stationary, transition and accident conditions. The leak-tightness and integrity of fuel rods in the reactor can be estimated, and, if needed, special operational precautions can be issued early. The first, "START-3" is used for justification support necessary to receive the Nuclear Authorities Fuel Loading License, estimates fuel rods condition, forecast its behavior, and makes a comparison with fuel operation conditions. The second, "RAPTA-5 will be used for calculation of fuel rods parameters during LOCA and RIA (reactivity increase accident). The Tianwan NPS staff was trained and certified by All-Russia Research Institute of Inorganic Materials to use the above mentioned computer codes.