ABSTRACT

Study the Exposure time for Radiography test

By
Bogi Andre Falevi
6208030006

Counting the exposure time for radiography test done for reach the time that needed in one shot. This study is do in order to the film which made is equal with the bild-black level of the film in density about two for gamma ray. To reach that density the one way is needed is the accuration a flight link.

The radiography test is a test which using isothop radio as the radiation source. In this test, using gamma ray camera with radio isothop inside. The first way is knowing currie activity, the character of material, and the material’s bold, also the type of the material to decide the exposure technique, source gap to the film (SFD), and the film which using. After all is known and decide, than the shoot process could do with counting the time to the reach density level 2. Comparison the exposure time use several film type.

According the counting, in the test which done to radiography test there are some factor influence the counting of exposure, that is the material’s bold, the material’s type, the exposure’s technique, the gap between the source and te film, and the currie activity which used. In the counting of middle film AGFA D7 and KODAK AA got diferrence around 4.5 second in each shoot.

Keyword : exposure time, radiography test, gamma ray