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nuclear fuel is occasionally warranted to produce a stipulated average mwd ton for discharged fuel mwd ton is defined as the megawatt days of heat produced per 2000 pounds of total fissionable and fertile isotopes initially present in the history of nuclear power reactors mwd ton has been a difficult number to measure accurately measurements performed in different laboratories are not always in agreement a fuel burnup group is preparing tentative procedures which will help standardize the field of burnup analysis the purpose of this report is to evaluate some of the existing methods for burnup analysis and to select if possible the one best suited for warranty purposes an ultraviolet spectrophotometric method for the determination of uranium has been developed which is based on the ultraviolet absorption of the complex of uranium vi with tris 2 ethylhexyl phosphine oxide the complex is formed by extracting uranium vi from an aqueous 6m sodium nitrate solution in the ph range 2 5 3 0 into 0 1m solution of tris 2 ethylhexyl phosphine oxide tehpo in an inert diluent cyclohexane

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