عنوان مقاله:

Uranium Recovery from Isfahan’s UCF Plant Solid Waste Using a Pulsed Sieve-Plate Column

محل انتشار:

هفتمین کنگره ملی مهندسی شیمی (سال: 1390)

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نویسندگان:

Fatemeh Hanifpour - *Department of Energy Engineering, Sharif University of Technology, P.O. Box ۱۱۳۶۵-۸۶۳۹*

Marziye Moazen - *Department of Energy Engineering, Sharif University of Technology, P.O. Box ۱۱۳۶۵-۸۶۳۹*

Ahad Ghaemi - *Nuclear Science and Technology Research Institute, P.O. Box ۱۴۱۵۵-۱۳۳۹, Amirabad, Tehran, Iran*

Mohammad Taghizadeh - *Nuclear Science and Technology Research Institute, P.O. Box ۱۴۱۵۵-۱۳۳۹, Amirabad, Tehran, Iran*

خلاصه مقاله:

During UF6 production in Isfahan’s UCF plant, liquid waste containing uranium compounds, is directed to evaporation lagoons. Gradually, a considerable amount of precipitation will form at the bottom of the lagoons. Uranium concentration in this precipitation is in the order of a few weight percent. So it seems that uranium recovery from this waste is not only economically advantageous, but also environmentally protective. In this study, uranium extraction via solvent extraction process and by means of di-(2-ethyl hexyl)phosphoric acid (D2EHPA) as extractant, is first studied in batch scale to optimize the extraction parameters and then the data is used on a pilot plant which is a pulsed column with sieved trays to optimize the operational parameters of the column

کلمات کلیدی:

Uranium, Solvent Extraction, D2EHPA, Pulsed Sieve-Plate Column