1014-06-311 **Michelle L Knox*** (michelle.knox@mwsu.edu), Department of Mathematics, Midwestern State University, 3410 Taft Blvd, Wichita Falls, TX 76308. *Conditional Completeness of $C(X, \mathbb{R}_\tau)$ Where $\mathbb{R}_\tau$ is a Weak P-Space.*

Let $\mathbb{R}_\tau$ denote the real numbers equipped with the topology τ. Suppose τ is a topology on the real numbers $\mathbb{R}$ which is finer than the usual topology such that $\mathbb{R}_\tau$ is a weak P-space, that is, a space in which countable sets are closed. We are interested in the lattice $C(X, \mathbb{R}_\tau)$. Recall that a lattice L is conditionally (σ)-complete if every (countable) subset of L which is bounded above has a supremum. A lattice L is said to have the property (I) if the following holds: for any two countable sets $\{x_n\}, \{y_m\}$ with $x_n \leq y_m$ for all natural numbers n, m, there exists h in L such that $x_n \leq h \leq y_n$ for all n. We characterize when $C(X, \mathbb{R}_\tau)$ is conditionally (σ)-complete and when it has the property (I). (Received September 08, 2005)