Giuseppe Martone\* (gmartone@usc.edu), Department of Mathematics KAP 415, 3620 South Vermont Avenue, Los Angeles, CA 90089. Boundaries of Hitchin components. Preliminary report. Let S be a closed orientable surface of genus  $g \geq 2$ . Hitchin representations are higher rank generalizations of hyperbolic metrics on S and form a whole component, called the Hitchin component  $\operatorname{Hit}_n(S)$ , of the space of homomorphisms from the fundamental group  $\pi_1(S)$  to  $\operatorname{PSL}(n,\mathbb{R})$ . Parreau compactified the Hitchin component by actions of  $\pi_1(S)$  on certain affine buildings. I am trying to obtain a better description and understanding of this compactification by using a parametrization of  $\operatorname{Hit}_n(S)$  recently developed by Bonahon-Dreyer. (Received August 19, 2015)